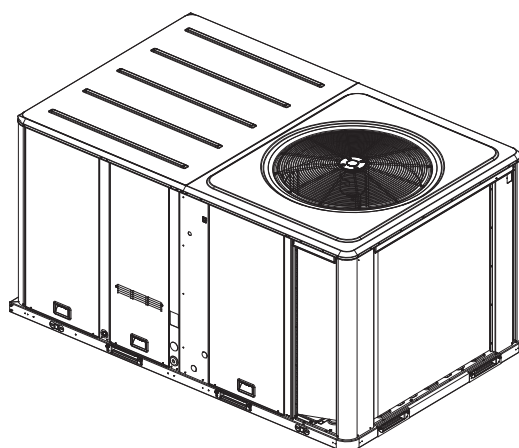


Service Facts

Packaged Rooftop Air Conditioners Precedent™ Cooling, Gas/Electric, Heat Pumps

3 to 5 Ton Standard and High Efficiency 3
Phase Rooftop Units



Model Numbers T/YSC036-060G3,4,W WSC036-060H3,4,W
W/DHC036-060H3,4,W T/YHC036E1,3,4,W
T/YHC048E/F1,3,4,W T/YHC060E/F1,3,4,W

SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

Introduction

Read this manual thoroughly before operating or servicing this unit.

Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

⚠ WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.

NOTICE Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants-including industry replacements for CFCs and HCFCs such as saturated or unsaturated HFCs and HCFCs.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

⚠ WARNING

Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury. All field wiring **MUST** be performed by qualified personnel. Improperly installed and grounded field wiring poses **FIRE** and **ELECTROCUTION** hazards. To avoid these hazards, you **MUST** follow requirements for field wiring installation and grounding as described in NEC and your local/state electrical codes.

⚠ WARNING

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury. Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, **MUST** follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians **MUST** put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). **ALWAYS** refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, **ALWAYS** refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labeling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians **MUST** put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, **PRIOR** to servicing the unit. **NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.**

WARNING

Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

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Revision History

- Updated data for D/WHC036H.
- Added 2-stage gas heat to YSC036-060G.

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General Data

Table 1. General data - 3 to 5 tons - standard efficiency

	3 Tons	4 Tons	5 Tons
	T/YSC036G3,4,W	T/YSC048G3,4,W	T/YSC060G3,4,W
Cooling Performance^(a)			
Gross Cooling Capacity	37,000	49,000	60,000
EER/SEER ^(b)	12.0/14.0	12.0/14.0	12.0/14.0
Nominal cfm/AHRI Rated cfm	1,200/1,200	1,600/1,600	2,000/2,000
AHRI Net Cooling Capacity	36,000	48,000	58,500
System Power (kW)	3.00	4.00	4.88
Compressor			
Number/Type	1/Scroll	1/Scroll	1/Scroll
Sound			
Outdoor Sound Rating (dB) ^(c)	79	80	81
Outdoor Coil			
Type	Microchannel	Microchannel	Microchannel
Configuration	Full Face	Full Face	Full Face
Tube Size (in.)	0.63	0.63	1.00
Face Area (sq. ft.)	10.50	10.50	11.90
Rows/FPI	1/23	1/23	1/23
Indoor Coil			
Type	Microchannel	Microchannel	Microchannel
Configuration	Full Face	Full Face	Full Face
Tube Size (in.)	0.63	0.63	0.81
Face Area (sq. ft.)	6.98	6.98	8.15
Rows/FPI (Fins per inch)	2/16	2/16	2/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT	1¾ NPT
Outdoor Fan			
Type	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/22	1/22
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
cfm	3,600	4,050	3,950
Motor hp	0.25	0.33	0.4
Motor rpm	1,100	1,100	1,100
Indoor Fan - Type			
Type (Standard)	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1	1	1
Drive Type/No. Speeds/RPM	11x11	11x11	11x11
Number Motors	Direct/5 ^(d)	Direct/5 ^(d)	Direct/5 ^(d)
Motor hp	0.75/1.5	1.0/1.5	1.0/1.5
Motor Frame Size	48	48	48
Filters^(e)			
Type Furnished	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x35x2	(2) 20x35x2	(2) 20x35x2
Refrigerant Charge^(f)			
Pounds of R-410A	3.2	3.5	4.8

General Data

Table 1. General data - 3 to 5 tons - standard efficiency (continued)

	3 Tons	4 Tons	5 Tons
	T/YSC036G3,4,W	T/YSC048G3,4,W	T/YSC060G3,4,W
Heating Performance (Gas/Electric Only)^(g)			
Heating Input			
Low Heat Input (Btu)	80,000	80,000	80,000
Mid Heat Input (Btu)	100,000	100,000	100,000
High Heat Input (Btu)	120,000	130,000	150,000
Heating Output			
Low Heat Output (Btu)	64,800	64,800	64,800
Mid Heat Output (Btu)	81,000	81,000	81,000
High Heat Output (Btu)	97,200	105,300	121,500
Steady State Efficiency %			
Low Heat Input (Btu)	81	81	81
Mid Heat Input (Btu)	81	81	81
High Heat Input (Btu)	81	81	81
No. Burners			
Low Heat Input (Btu)	2	2	2
Mid Heat Input (Btu)	3	3	3
High Heat Input (Btu)	4	4	4
No. Stages			
Low Heat Input (Btu)	2	2	2
Mid Heat Input (Btu)	2	2	2
High Heat Input (Btu)	2	2	2
Gas Supply Line Pressure			
Natural (minimum/maximum)	4.5/14.0	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in.)			
Low Heat	1/2	1/2	1/2
Mid Heat	1/2	1/2	1/2
High Heat	3/4	3/4	3/4

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(b) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.

(c) Outdoor sound rating shown is tested in accordance with AHRI Standard 270. For additional information reference the outdoor sound power level data in the performance section.

(d) For multi-speed direct drive rpm T/YSC values, reference the direct drive, evaporator fan performance data.

(e) Optional 2" MERV 8 and MERV 13 filters also available.

(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(g) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.

Table 2. General data - 3 to 5 tons - standard efficiency

	3 Tons	4 Tons	5 Tons
	WSC036H3,4,W	WSC048H3,4,W	WSC060H3,4,W
Cooling Performance^(a)			
Gross Cooling Capacity	39,500	50,000	61,000
EER/SEER ^(b)	3,4 = 12.1/14.3 W = 12.0/14.3	3,4 = 12.3/14.3 W = 12.2/14.3	3,4 = 12.3/14.3 W = 12.2/14.3
Nominal cfm/AHRI Rated cfm	1,200/1,200	1,600/1,600	2,000/2,000
AHRI Net Cooling Capacity	39,000	49,000	60,000
System Power (kW)	3.22	3.98	4.88
Heating Performance^(c)			
High Temp. Btu/h Rating	36,000	47,500	59,000
System Power kW/COP	3.01/3.50	3.98/3.50	4.94/3.50
Low Temp. Btu/h Rating	20,600	26,000	35,000
System Power kW/COP	2.74/2.20	3.31/2.30	4.46/2.30
HSPF (Btu/Watts-hr)	8.00	8.20	8.20
Compressor			
Number/Type	1/Scroll	1/Scroll	1/Scroll
Sound			
Outdoor Sound Rating (dB) ^(d)	79	80	87
Outdoor Coil			
Type	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	12.33	12.33	17.00
Rows/FPI	2/16	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Indoor Coil			
Type	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	8.74	8.74	9.27
Rows/FPI	3/16	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT	1¾ NPT
Outdoor Fan			
Type	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/22	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
cfm	3,600	4,050	5,130
Motor hp	0.25	0.33	0.40
Motor rpm	1,100	1,100	1,100
Indoor Fan			
Type (Standard)	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/5 ^(e)	Direct/5 ^(e)	Direct/5 ^(e)
Motor hp (standard/oversized)	0.75/1.5	1.0/1.5	1.0/1.5
Motor Frame Size (standard/oversized)	48/48	48/48	48/48
Filters^(f)			
Type Furnished	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x35x2	(2) 20x35x2	(4) 16x25x2

General Data

Table 2. General data - 3 to 5 tons - standard efficiency (continued)

	3 Tons	4 Tons	5 Tons
	WSC036H3,4,W	WSC048H3,4,W	WSC060H3,4,W
Refrigerant Charge^(g)			
Pounds of R-410A	7.7	9.3	11.5

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(b) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.

(c) Heating performance is rated at 47°F ambient with 43°F wet bulb, 70°F entering dry bulb, 60°F entering wet bulb. High Temp. Btu/h Rating includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information reference the outdoor sound power level data in the performance section.

(e) For multispeed direct drive rpm values, reference the direct drive, evaporator fan performance table.

(f) Optional 2" MERV 8 and MERV 13 filters also available.

(g) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

Table 3. General data - 3 tons - high efficiency

	3 Tons	
	T/YHC036E1	T/YHC036E3,4W ^{(a),(b)}
Cooling Performance^(c)		
Gross Cooling Capacity	38,490	37,600
EER/SEER ^(d)	13.0/15.2	12.7/15.0 ^(a)
Nominal cfm/AHRI Rated cfm	1,200/1,200	1,200/1,200
AHRI Net Cooling Capacity	37,000	37,000
System Power (kW)	2.93	2.99
Compressor		
Number/Type	1/Scroll	1/Scroll
Sound		
Outdoor Sound Rating (dB) ^(e)	81	81
Outdoor Coil		
Type	Lanced	Lanced
Configuration	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	10.96	10.96
Rows/FPI	2/16	2/16
Indoor Coil		
Type	Lanced	Lanced
Configuration	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	7.71	7.71
Rows/FPI (Fins per inch)	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¼ NPT	1¼ NPT
Outdoor Fan		
Type	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/22
Drive Type/No. Speeds	Direct/1	Direct/1
cfm	3,064	3,064
Motor hp	0.2	0.2
Motor rpm	1,075	1,075
Indoor Fan		
Type (Standard) ^(f)	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/5 ^(g)	Direct/5 ^(g)
Number Motors	1	1
Motor hp (Standard/Oversized)	0.75	.75
Motor Frame Size (Standard/Oversized)	48	48
Indoor Fan		
Type (Optional)	—	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	—	1/11x11
Drive Type/No. Speeds	—	Belt/Variable
Number Motors	—	1
Motor hp (Standard/Oversized)	—	1.0
Motor Frame Size (Standard/Oversized)	—	56

General Data

Table 3. General data - 3 tons - high efficiency (continued)

	3 Tons	
	T/YHC036E1	T/YHC036E3,4W^{(a),(b)}
Filters^(h)		
Type Furnished	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x2	(2) 20x30x2
Optional Hot Gas Reheat Coil (Type)		
Tube Size (in.) OD	—	0.3125
Face Area (sq. ft.)	—	5.23
Rows/FPI	—	1/16
Refrigerant Charge (Lbs. of R-410A)⁽ⁱ⁾		
Standard	6.2	6.2
Optional Hot Gas Reheat Coil	—	10.5
Heating Performance^(j)	(Gas/Electric Only)	
Heating Input		
Low Heat Input (Btu)	60,000	60,000
Mid Heat Input (Btu)	80,000	80,000
High Heat Input (Btu)	100,000	120,000
Heating Output		
Low Heat Output (Btu)	49,200	48,000
Mid Heat Output (Btu)	65,600	64,000
High Heat Output (Btu)	82,000	96,000
AFUE^(k)		
Low Heat Input (Btu)	81	78
Mid Heat Input (Btu)	81	78
High Heat Input (Btu)	81	78
Steady State Efficiency %		
Low Heat Input (Btu)	82	80
Mid Heat Input (Btu)	82	80
High Heat Input (Btu)	82	80
No. Burners		
Low Heat Input (Btu)	2	2
Mid Heat Input (Btu)	2	2
High Heat Input (Btu)	3	3
No. Stages		
Low Heat Input (Btu)	1	1
Mid Heat Input (Btu)	1	1
High Heat Input (Btu)	1	1
Gas Supply Line Pressure		
Natural (minimum/maximum)	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)		
Low Heat	1/2	1/2
Mid Heat	1/2	1/2
High Heat	1/2	1/2

(a) YHC036EW: EER = 12.4; SEER = 14.4

(b) 575V (W voltage) is only available as YHC. No THC models available with 575V (W voltage).

(c) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(d) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.

- (e) Outdoor sound rating shown is tested in accordance with AHRI Standard 270. For additional information reference the outdoor sound power level data in the performance section.
- (f) Belt drive fan is standard on units with reheat option.
- (g) For multispeed direct drive rpm T/YHC values, reference the direct drive, evaporator fan performance data.
- (h) Optional 2" MERV 8 and MERV 13 filters also available.
- (i) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
- (j) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2,000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
- (k) AFUE is rated in accordance with DOE test procedures.

General Data

Table 4. General data - 4 tons - high efficiency

	4 Tons		
	T/YHC048F1	T/YHC048E3,4W(b)	T/YHC048F3,4W(b)
Cooling Performance^(a)			
Gross Cooling Capacity	48,930	49,930	49,930
EER/SEER ^(b)	12.55/15.0	14.2	13.35/15.0
Nominal cfm/AHRI Rated cfm	1,600/1,600	1,600/1,600	1,600/1,600
AHRI Net Cooling Capacity	48,000	49,000	49,000
System Power (kW)	3.83	3.67	3.67
Compressor			
Number/Type	1/Scroll	1/Scroll	1/Scroll
Sound			
Outdoor Sound Rating (dB) ^(c)	87	87	87
Outdoor Coil			
Type	Microchannel	Lanced	Microchannel
Configuration	Full Face	Full Face	Full Face
Tube Size (in.)	0.71	0.3125	0.71
Face Area (sq. ft.)	16.91	17.00	16.91
Rows/FPI	1/23	3/16	1/23
Indoor Coil			
Type	Lanced	Lanced	Lanced
Configuration	Full Face	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	9.27	9.27	9.27
Rows/FPI	3/16	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT	1¾ NPT
Outdoor Fan			
Type	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/26	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
cfm	3,986	3,982	3,982
Motor hp	0.4	0.4	0.4
Motor rpm	1,075	1,075	1,075
Indoor Fan			
Type (Standard) ^(d)	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/5(g)	Direct/5(g)	Direct/5(g)
Number Motors	1	1	1
Motor hp (Standard/Oversized)	1.0	1.0	1.0
Motor Frame Size (Standard/Oversized)	48	48	48
Indoor Fan			
Type (Optional)	—	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	—	1/11x11	1/11x11
Drive Type/No. Speeds	—	Belt/Variable	Belt/Variable
Number Motors	—	1	1
Motor hp (Standard/Oversized)	—	1.0	1.0
Motor Frame Size (Standard/Oversized)	—	56	56

Table 4. General data - 4 tons - high efficiency (continued)

	4 Tons		
	T/YHC048F1	T/YHC048E3,4W(b)	T/YHC048F3,4W(b)
Filters(e)			
Type Furnished	Throwaway	Throwaway	Throwaway
Number Size Recommended	(4) 16x25x2	(4) 16x25x2	(4) 16x25x2
Optional Hot Gas Reheat Coil (Type)			
Tube Size (in.) OD	—	0.3125	—
Face Area (sq. ft.)	—	6.28	—
Rows/FPI	—	1/16	—
Refrigerant Charge (Lbs. of R-410A)(f)			
Standard	5.2	—	5.2
Optional Hot Gas Reheat Coil	—	15.2	—
Heating Performance(g)			
Heating Input			
Low Heat Input (Btu)	60,000	60,000	60,000
Mid Heat Input (Btu)	80,000	80,000	80,000
High Heat Input (Btu)	120,000	120,000	120,000
Heating Output			
Low Heat Output (Btu)	49,200	49,000	49,000
Mid Heat Output (Btu)	66,400	64,000	64,000
High Heat Output (Btu)	98,400	96,000	96,000
AFUE%(h)			
Low Heat Input (Btu)	81	80	80
Mid Heat Input (Btu)	81	79	79
High Heat Input (Btu)	81	79	79
Steady State Efficiency %			
Low Heat Input (Btu)	82	81	81
Mid Heat Input (Btu)	83	80	80
High Heat Input (Btu)	82	81	81
No. Burners			
Low Heat Input (Btu)	2	2	2
Mid Heat Input (Btu)	2	2	2
High Heat Input (Btu)	3	3	3
No. Stages			
Low Heat Input (Btu)	1	1	1
Mid Heat Input (Btu)	1	1	1
High Heat Input (Btu)	1	1	1
Gas Supply Line Pressure			
Natural (minimum/maximum)	4.5/14.0	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)			
Low Heat	1/2	1/2	1/2
Mid Heat	1/2	1/2	1/2
High Heat	1/2	1/2	1/2

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(b) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.

(c) Outdoor sound rating shown is tested in accordance with AHRI Standard 270. For additional information reference the outdoor sound power level data in the performance section.

(d) Belt drive fan is standard on units with reheat option.

General Data

- (e) Optional 2" MERV 8 and MERV 13 filters also available.
- (f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
- (g) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2,000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
- (h) AFUE is rated in accordance with DOE test procedures.

Table 5. General data - 5 tons - high efficiency

	5 Tons		
	T/YHC060F1	T/YHC060E3,4W ^(a)	T/YHC060F3,4W ^(a)
Cooling Performance^(b)			
Gross Cooling Capacity	61,000	61,000	61,000
EER/SEER ^(c)	12.85/15.0	14.2	12.85/15.0
Nominal cfm/AHRI Rated cfm	2,000/2,000	2,000/2,000	2,000/2,000
AHRI Net Cooling Capacity	59,500	60,000	60,000
System Power (kW)	4.63	4.67	4.67
Compressor			
Number/Type	1/Scroll	1/Scroll	1/Scroll
Sound			
Outdoor Sound Rating (dB) ^(d)	87	87	87
Outdoor Coil - Type	Microchannel	Lanced	Microchannel
Configuration	Full Face	Full Face	Full Face
Tube Size (in.)	0.71	0.3125	0.71
Face Area (sq. ft.)	16.91	17	16.91
Rows/FPI	1/23	3/16	1/23
Indoor Coil - Type	Lanced	Lanced	Lanced
Configuration	Full Face	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	9.89	9.89	9.89
Rows/FPI (Fins per inch)	4/16	4/16	4/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1 3/4 NPT	1 3/4 NPT	1 3/4 NPT
Outdoor Fan - Type	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/26	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
cfm	3,953	3,953	3,953
Number Motors/hp	0.40	0.40	0.40
Motor rpm	1,075	1,075	1,075
Indoor Fan - Type (Standard)^(e)	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/5 ^(f)	Direct/5 ^(f)	Direct/5 ^(f)
Motor hp	1.0	1.0	1.0
Motor Frame Size	48	48	48
Indoor Fan - Type (Optional)		FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	—	1/11x11	1/11x11
Drive Type/No. Speeds	—	Belt/Variable	Belt/Variable
Motor hp	—	1.0	1.0
Motor Frame Size	—	56	56
Filters^(g)			
Type Furnished	Throwaway	Throwaway	Throwaway
Number Size Recommended	(4) 16x25x2	(4) 16x25x2	(4) 16x25x2
Optional Hot Gas Reheat Coil - Type			
Tube Size (in.) OD	—	0.3125	—
Face Area (sq. ft.)	—	6.28	—
Rows/FPI	—	1/16	—

General Data

Table 5. General data - 5 tons - high efficiency (continued)

	5 Tons		
	T/YHC060F1	T/YHC060E3,4W^(a)	T/YHC060F3,4W^(a)
Refrigerant Charge (Lbs. of R-410A) ^(h)			
Standard	6.1	—	6.1
Optional Hot Gas Reheat Coil	—	15.7	—
Heating Performance⁽ⁱ⁾			
(Gas/Electric Only)			
Heating Input			
Low Heat Input (Btu)	60,000	60,000	60,000
Mid Heat Input (Btu)	80,000	80,000	80,000
High Heat Input (Btu)	130,000	130,000	130,000
Heating Output			
Low Heat Output (Btu)	49,800	49,000	49,000
Mid Heat Output (Btu)	65,600	64,000	64,000
High Heat Output (Btu)	106,600	104,000	104,000
AFUE%^(j)			
Low Heat Input (Btu)	81	80	80
Mid Heat Input (Btu)	81	79	79
High Heat Input (Btu)	81	80	80
Steady State Efficiency %			
Low Heat Input (Btu)	83	81	81
Mid Heat Input (Btu)	82	80	80
High Heat Input (Btu)	82	80	80
No. Burners			
Low Heat Input (Btu)	2	2	2
Mid Heat Input (Btu)	2	2	2
High Heat Input (Btu)	3	3	3
No. Stages			
Low Heat Input (Btu)	1	1	1
Mid Heat Input (Btu)	1	1	1
High Heat Input (Btu)	1	1	1
Gas Supply Line Pressure			
Natural (minimum/maximum)	4.5/14.0	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)			
Low Heat	1/2	1/2	1/2
Mid Heat	1/2	1/2	1/2
High Heat	1/2	1/2	1/2

(a) 575V (W voltage) is only available as YHC. No THC models available with 575V (W voltage).

(b) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(c) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.

(d) Outdoor sound rating shown is tested in accordance with AHRI Standard 270. For additional information reference the outdoor sound power level data in the performance section.

(e) Belt drive is standard on units with reheat option.

(f) For multispeed direct drive rpm T/YHC values, reference the direct drive, evaporator fan performance data.

(g) Optional 2" MERV 8 and MERV 13 filters also available.

(h) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(i) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.

(j) AFUE is rated in accordance with DOE test procedures.

Table 6. General data - 3 to 5 tons - high efficiency

	3 Tons	4 Tons	5 Tons
	WHC036H3,4,W	WHC048H3,4,W	WHC060H3,4,W
Cooling Performance^(a)			
Gross Cooling Capacity-High Stage	36,400	48,750	61,000
EER/SEER ^(b)	12.5/16.0	13.0/16.5	3=13.0/16.4 4,W=12.9/16.2
Nominal cfm-High Stage/AHRI Rated cfm	1,200/1,200	1,600/1,680	2,000/2,000
Nominal cfm-Low Stage/AHRI Rated cfm	840	1,120	1,400
AHRI Net Cooling Capacity-High Stage	36,000	48,000	60,000
System Power-High Stage (kW)	2.88	3.69	4.62
Heating Performance^(c)			
High Temp. Btu/h Rating-High Stage	32,200	44,000	57,000
System Power kW/COP-High Stage	2.62/3.60	3.58/3.60	4.64/3.60
Low Temp. Btu/h Rating-High Stage	21,400	24,000	34,400
System Power kW/COP-High Stage	2.73/2.30	3.06/2.30	4.38/2.30
HSPF (Btu/Watts-hr)	8.80	8.80	9.00
Compressor			
Number/Type	1/Scroll (2-stage)	1/Scroll (2-stage)	1/Scroll (2-stage)
Sound			
Outdoor Sound Rating (dB) ^(d)	81	87	87
Outdoor Coil			
Type	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	12.33	17.00	17.00
Rows/FPI	3/16	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Indoor Coil			
Type	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	8.74	9.27	9.27
Rows/FPI	3/16	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT	1¾ NPT
Outdoor Fan			
Type	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
cfm	3,600	5,130	5,130
Motor hp	0.25	0.40	0.40
Motor rpm	1,100	1,100	1,100
Indoor Fan			
Type (Standard)	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/Variable	Direct/Variable	Direct/Variable
Motor hp (standard/oversized)	0.75/1.5	1.0/1.5	1.0/1.5
Motor Frame Size (standard/oversized)	48/48	48/48	48/48
Filters^(e)			
Type Furnished	Throwaway	Throwaway	Throwaway

General Data

Table 6. General data - 3 to 5 tons - high efficiency (continued)

	3 Tons	4 Tons	5 Tons
	WHC036H3,4,W	WHC048H3,4,W	WHC060H3,4,W
Number Size Recommended	(2) 20x35x2	(4) 16x25x2	(4) 16x25x2
Refrigerant Charge^(f)			
Pounds of R-410A	8.8	10.8	10.8

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(b) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.

(c) Heating performance is rated at 47°F ambient with 43°F wet bulb, 70°F entering dry bulb, 60°F entering wet bulb. High Temp. Btu/h Rating includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information reference the outdoor sound power level data in the performance section.

(e) Optional 2" MERV 8 and MERV 13 filters also available.

(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

Table 7. General data - 3 to 5 tons - dual fuel efficiency

	3 Tons	4 Tons	5 Tons
	DHC036H3,4,W	DHC048H3,4,W	DHC060H3,4,W
Cooling Performance^(a)			
Gross Cooling Capacity-High Stage	36,400	48,750	61,000
EER/SEER ^(b)	3=12.5/15.7 4,W=12.5/15.6	13.0/16.5	3=12.8/16.2 4,W=12.8/16.0
Nominal cfm-High Stage/AHRI Rated cfm	1,200/1,200	1,600/1,680	2,000/2,000
Nominal cfm-Low Stage/AHRI Rated cfm	840	1,120	1,400
AHRI Net Cooling Capacity-High Stage	36,000	48,000	60,000
System Power-High Stage (kW)	2.88	3.69	4.69
Heating Performance^(c)			
High Temp. Btu/h Rating-High Stage	32,200	44,000	57,000
System Power kW/COP-High Stage	2.62/3.60	3.58/3.60	4.64/3.60
Low Temp. Btu/h Rating-High Stage	21,400	24,000	34,400
System Power kW/COP-High Stage	2.73/2.30	3.06/2.30	4.38/2.30
HSPF (Btu/Watts-hr)	8.80	8.80	8.90
Compressor			
Number/Type	1/Scroll (2-stage)	1/Scroll (2-stage)	1/Scroll (2-stage)
Sound			
Outdoor Sound Rating (dB) ^(d)	81	87	87
Outdoor Coil			
Type	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	12.33	17.00	17.00
Rows/FPI (Fins per inch)	3/16	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Indoor Coil			
Type	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	8.74	9.27	9.27
Rows/FPI	3/16	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT	1¾ NPT
Outdoor Fan			
Type	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
cfm	3,600	5,130	5,130
Motor hp	0.25	0.40	0.40
Motor rpm	1,100	1,100	1,100
Indoor Fan			
Type (Standard)	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/Variable	Direct/Variable	Direct/Variable
Motor hp (standard/oversized)	0.75/1.5	1.0/1.5	1.0/1.5
Motor Frame Size (standard/oversized)	48/48	48/48	48/48
Filters^(e)			
Type Furnished	Throwaway	Throwaway	Throwaway

General Data

Table 7. General data - 3 to 5 tons - dual fuel efficiency (continued)

	3 Tons	4 Tons	5 Tons
	DHC036H3,4,W	DHC048H3,4,W	DHC060H3,4,W
Number Size Recommended	(2) 20x35x2	(4) 16x25x2	(4) 16x25x2
Refrigerant Charge^(f)			
Pounds of R-410A	8.8	10.8	10.8
Gas Heating Performance (Dual Fuel Only)^(g)			
Gas Heating Input (2nd stage/1st stage)			
Low Heat Input (Btu)	60,000/42,000	60,000/42,000	60,000/42,000
Mid Heat Input (Btu)	80,000/56,000	100,000/70,000	100,000/72,000
High Heat Input (Btu)	100,000/70,000	130,000/91,000	150,000/105,000
Gas Heating Output (2nd stage/1st stage)			
Low Heat Output (Btu)	48,600/34,020	48,600/34,020	48,600/34,020
Mid Heat Output (Btu)	64,800/45,360	81,000/56,700	81,000/58,320
High Heat Output (Btu)	81,000/56,700	105,300/73,710	121,500/85,050
Steady State Efficiency %	81	81	81
No. Burners			
Low Heat Output (Btu)	2	2	2
Mid Heat Output (Btu)	2	3	3
High Heat Output (Btu)	3	3	4
No. Stages			
Low Heat Input (Btu)	2	2	2
Mid Heat Input (Btu)	2	2	2
High Heat Input (Btu)	2	2	2
Gas Supply Line Pressure			
Natural (minimum/maximum)	4.5/14.0	4.5/14.0	4.5/14.0
LP (minimum/maximum)	N/A	N/A	N/A
Gas Connection Pipe Size (in.)			
Low Heat	1/2	1/2	1/2
Mid Heat	1/2	1/2	1/2
High Heat	1/2	3/4	3/4

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(b) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.

(c) Heating performance is rated at 47°F ambient with 43°F wet bulb, 70°F entering dry bulb, 60°F entering wet bulb. High Temp. Btu/h Rating includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information reference the outdoor sound power level data in the performance section.

(e) Optional 2" MERV 8 and MERV 13 filters also available.

(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(g) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Dual Fuel units only.

Direct Drive - Evaporator Fan Performance

Table 8. Multispeed direct drive evaporator fan performance 3 to 5 tons - standard efficiency - no electric heat
TSC036G3,4,W, TSC048G3,4,W, TSC060G3,4,W

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (bhp) ^{(a),(b)}														
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	TSC036G3,4,W Downflow Airflow	960	0.36	699	0.17	0.75	859	0.29	1.12	1017	0.44	1.57	1157	0.61	—	—	—
		1020	0.30	674	0.17	0.68	841	0.29	1.05	997	0.43	1.48	1139	0.60	—	—	—
		1080	0.24	649	0.16	0.61	822	0.28	0.96	978	0.42	1.38	1121	0.59	—	—	—
		1140	0.18	624	0.15	0.54	804	0.27	0.88	958	0.42	1.29	1102	0.58	—	—	—
		1200	0.11	599	0.15	0.47	785	0.27	0.79	939	0.41	1.20	1084	0.57	1.45	1148	0.71
		1260	0.05	574	0.14	0.40	767	0.26	0.71	919	0.40	1.10	1066	0.56	1.34	1127	0.70
		1320	—	—	—	0.34	749	0.25	0.62	899	0.39	1.01	1047	0.55	1.24	1106	0.68
		1380	—	—	—	0.27	730	0.25	0.54	880	0.38	0.92	1029	0.54	1.13	1085	0.67
3	TSC036G3,4,W Horizontal Airflow	1440	—	—	—	0.20	712	0.24	0.45	860	0.37	0.82	1011	0.53	1.02	1064	0.66
		960	0.39	676	0.17	0.70	828	0.28	1.05	982	0.43	1.46	1106	0.58	—	—	—
		1020	0.33	650	0.16	0.63	805	0.27	0.97	961	0.42	1.37	1085	0.57	—	—	—
		1080	0.27	625	0.15	0.56	783	0.27	0.90	940	0.41	1.29	1064	0.56	—	—	—
		1140	0.22	599	0.15	0.49	761	0.26	0.82	919	0.40	1.20	1043	0.55	—	—	—
		1200	0.16	574	0.14	0.43	739	0.25	0.75	898	0.39	1.11	1023	0.54	1.59	1171	0.72
		1260	0.10	548	0.14	0.36	716	0.24	0.68	877	0.38	1.02	1002	0.53	1.48	1150	0.71
		1320	0.04	522	0.13	0.29	694	0.24	0.60	856	0.37	0.93	981	0.52	1.38	1128	0.70
4	TSC048G3,4,W Downflow Airflow	1380	—	—	—	0.22	672	0.23	0.53	835	0.36	0.84	960	0.51	1.28	1107	0.68
		1440	—	—	—	0.16	650	0.22	0.45	814	0.35	0.76	940	0.49	1.17	1085	0.67
		1280	0.60	842	0.33	0.98	1023	0.50	—	—	—	—	—	—	—	—	—
		1360	0.50	811	0.32	0.84	990	0.48	0.94	1112	0.65	1.17	1133	0.77	—	—	—
		1440	0.39	781	0.30	0.70	956	0.46	0.80	1080	0.63	1.02	1098	0.74	—	—	—
		1520	0.29	750	0.29	0.56	922	0.45	0.65	1048	0.61	0.87	1063	0.72	1.30	1210	0.87
		1600	0.18	719	0.28	0.43	889	0.43	0.51	1016	0.59	0.72	1028	0.70	1.19	1181	0.84
		1680	0.08	689	0.27	0.29	855	0.42	0.37	984	0.57	0.57	993	0.67	1.07	1151	0.82
4	TSC048G3,4,W Horizontal Airflow	1760	—	—	—	0.15	821	0.40	0.23	952	0.55	0.42	958	0.65	0.96	1121	0.80
		1840	—	—	—	0.01	787	0.38	0.08	919	0.54	0.28	923	0.63	0.85	1092	0.78
		1920	—	—	—	—	—	—	—	—	—	0.13	888	0.60	0.73	1062	0.76
		1280	0.69	872	0.34	0.92	983	0.48	—	—	—	—	—	—	—	—	—
		1360	0.58	839	0.33	0.81	950	0.46	1.14	1078	0.63	1.14	1190	0.81	—	—	—
		1440	0.47	806	0.31	0.70	916	0.44	1.02	1046	0.61	1.01	1159	0.79	—	—	—
		1520	0.35	773	0.30	0.59	883	0.43	0.90	1014	0.59	0.89	1128	0.77	1.42	1200	0.86
		1600	0.24	739	0.29	0.48	850	0.41	0.79	982	0.57	0.77	1097	0.74	1.31	1175	0.84
5	TSC060G3,4,W Downflow Airflow	1680	0.13	706	0.28	0.37	817	0.40	0.67	950	0.55	0.64	1066	0.72	1.20	1150	0.82
		1760	0.02	673	0.26	0.26	784	0.38	0.55	918	0.54	0.52	1035	0.70	1.09	1125	0.80
		1840	—	—	—	0.15	751	0.36	0.44	886	0.52	0.40	1004	0.68	0.98	1100	0.79
		1920	—	—	—	—	—	—	0.32	854	0.50	0.27	973	0.66	0.87	1075	0.77
		1600	0.79	998	0.57	1.07	1083	0.68	1.31	1183	0.85	—	—	—	—	—	—
		1700	0.62	956	0.55	0.92	1043	0.66	1.12	1144	0.82	1.34	1208	0.97	—	—	—
		1800	0.45	913	0.52	0.77	1004	0.63	0.93	1105	0.79	1.15	1176	0.94	—	—	—
		1900	0.28	870	0.50	0.62	964	0.61	0.74	1066	0.76	0.97	1143	0.92	1.24	1188	1.04
5	TSC060G3,4,W Horizontal Airflow	2000	0.11	828	0.47	0.47	924	0.58	0.54	1027	0.73	0.78	1111	0.89	1.06	1150	1.01
		2100	—	—	—	0.32	885	0.56	0.35	987	0.71	0.60	1078	0.86	0.87	1111	0.97
		2200	—	—	—	0.17	845	0.53	0.16	948	0.68	0.41	1046	0.84	0.69	1073	0.94
		2300	—	—	—	0.02	805	0.51	—	—	—	0.22	1013	0.81	0.50	1035	0.91
		2400	—	—	—	—	—	—	—	—	—	0.04	980	0.79	0.32	997	0.87
		1600	0.89	1002	0.57	1.04	1049	0.66	1.32	1144	0.82	1.55	1159	0.93	—	—	—
		1700	0.73	959	0.55	0.88	1008	0.63	1.16	1104	0.79	1.39	1119	0.90	—	—	—
		1800	0.57	916	0.52	0.72	966	0.61	0.99	1064	0.76	1.22	1079	0.86	—	—	—
5	TSC060G3,4,W Horizontal Airflow	1900	0.42	872	0.50	0.56	924	0.58	0.83	1024	0.73	1.06	1039	0.83	1.37	1213	1.06
		2000	0.26	829	0.47	0.40	882	0.56	0.67	984	0.70	0.89	999	0.80	1.21	1148	1.00
		2100	0.11	769	0.44	0.24	840	0.53	0.51	944	0.68	0.72	959	0.77	1.04	1106	0.97
		2200	—	—	—	0.08	799	0.50	0.34	904	0.65	0.56	918	0.74	0.87	1065	0.93
		2300	—	—	—	—	—	—	0.18	864	0.62	0.39	878	0.70	0.70	1023	0.90
		2400	—	—	—	—	—	—	—	—	—	—	—	—	0.53	982	0.86

For 036 models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16.

For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.

Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) For electric heat applications, minimum airflow is set to 320/ton, unless specified otherwise, values found in electric heat temperature rise table.

(b) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

Table 9. Multispeed direct drive evaporator fan performance 3 to 5 tons - standard efficiency - oversized motor - no electric heat TSC036G3,4,W, TSC048G3,4,W, TSC060G3,4,W

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (bhp) ^{(a),(b)}														
			Rated Speed Set 1			Std Low Speed Speed Set 2			Mid Speed Speed Set 3			Std High Speed Speed Set 4			OS High Speed Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	TSC036G3,4,W Downflow Airflow	960	1.16	967	0.43	—	—	—	—	—	—	—	—	—	—	—	—
		1020	1.07	947	0.42	—	—	—	—	—	—	—	—	—	—	—	—
		1080	0.98	927	0.41	—	—	—	—	—	—	—	—	—	—	—	—
		1140	0.90	908	0.41	1.43	1101	0.65	—	—	—	—	—	—	—	—	—
		1200	0.81	888	0.40	1.35	1081	0.64	1.47	1126	0.70	—	—	—	—	—	—
		1260	0.72	869	0.39	1.26	1062	0.63	1.39	1107	0.69	—	—	—	—	—	—
		1320	0.63	849	0.38	1.17	1042	0.62	1.30	1087	0.68	1.51	1163	0.79	—	—	—
		1380	0.55	829	0.37	1.09	1022	0.60	1.21	1067	0.67	1.42	1143	0.78	—	—	—
3	TSC036G3,4,W Horizontal Airflow	1440	0.46	810	0.36	1.00	1003	0.59	1.12	1048	0.65	1.34	1123	0.76	1.45	1164	0.83
		960	0.99	1008	0.45	1.42	1199	0.71	—	—	—	—	—	—	—	—	—
		1020	0.92	985	0.44	1.35	1176	0.70	1.45	1221	0.76	—	—	—	—	—	—
		1080	0.85	963	0.43	1.28	1154	0.68	1.38	1198	0.75	—	—	—	—	—	—
		1140	0.77	940	0.42	1.20	1131	0.67	1.30	1176	0.73	1.47	1250	0.85	—	—	—
		1200	0.70	917	0.41	1.13	1108	0.65	1.23	1153	0.72	1.40	1228	0.84	1.49	1268	0.90
		1260	0.63	895	0.40	1.06	1086	0.64	1.16	1130	0.71	1.33	1205	0.82	1.42	1245	0.88
		1320	0.56	872	0.39	0.99	1063	0.63	1.09	1108	0.69	1.26	1182	0.80	1.35	1222	0.87
4	TSC048G3,4,W Downflow Airflow	1380	0.49	849	0.38	0.92	1040	0.61	1.02	1085	0.68	1.18	1160	0.79	1.27	1199	0.85
		1440	0.41	827	0.37	0.84	1018	0.60	0.94	1062	0.66	1.11	1137	0.77	1.20	1177	0.84
		1280	1.14	1023	0.58	—	—	—	—	—	—	—	—	—	—	—	—
		1360	1.03	997	0.56	1.42	1137	0.76	—	—	—	—	—	—	—	—	—
		1440	0.91	971	0.55	1.30	1110	0.74	—	—	—	—	—	—	—	—	—
		1520	0.79	944	0.53	1.18	1084	0.73	—	—	—	—	—	—	—	—	—
		1600	0.68	918	0.52	1.07	1058	0.71	1.53	1224	0.97	—	—	—	—	—	—
		1680	0.56	892	0.50	0.95	1032	0.69	1.41	1198	0.95	—	—	—	—	—	—
4	TSC048G3,4,W Horizontal Airflow	1760	0.45	866	0.49	0.84	1006	0.67	1.30	1171	0.93	—	—	—	—	—	—
		1840	0.33	840	0.47	0.72	980	0.66	1.18	1145	0.91	1.54	1274	1.13	—	—	—
		1920	0.21	814	0.46	0.61	953	0.64	1.07	1119	0.89	1.43	1248	1.11	1.54	1288	1.18
		1280	0.96	1046	0.59	1.28	1185	0.79	—	—	—	—	—	—	—	—	—
		1360	0.87	1016	0.58	1.18	1154	0.77	—	—	—	—	—	—	—	—	—
		1440	0.77	986	0.56	1.08	1124	0.75	1.45	1288	1.02	—	—	—	—	—	—
		1520	0.68	956	0.54	0.99	1094	0.73	1.36	1258	1.00	—	—	—	—	—	—
		1600	0.58	925	0.52	0.89	1064	0.71	1.26	1228	0.97	—	—	—	—	—	—
5	TSC060G3,4,W Downflow Airflow	1680	0.48	895	0.51	0.8	1033	0.69	1.16	1197	0.95	1.45	1325	1.18	—	—	—
		1760	0.39	865	0.49	0.70	1003	0.67	1.07	1167	0.93	1.35	1294	1.15	1.44	1334	1.23
		1840	0.29	834	0.47	0.60	973	0.65	0.97	1137	0.90	1.26	1264	1.12	1.35	1304	1.20
		1920	0.20	804	0.45	0.51	943	0.63	0.88	1107	0.88	1.16	1234	1.10	1.25	1274	1.17
		1600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		1700	1.35	1141	0.82	—	—	—	—	—	—	—	—	—	—	—	—
		1800	1.17	1107	0.80	1.43	1193	0.95	—	—	—	—	—	—	—	—	—
		1900	0.98	1072	0.77	1.24	1158	0.92	—	—	—	—	—	—	—	—	—
5	TSC060G3,4,W Horizontal Airflow	2000	0.80	1038	0.75	1.06	1124	0.89	1.48	1265	1.15	—	—	—	—	—	—
		2100	0.61	1004	0.72	0.87	1090	0.86	1.30	1230	1.12	1.44	1279	1.22	—	—	—
		2200	0.43	969	0.70	0.69	1055	0.84	1.11	1196	1.09	1.26	1245	1.18	1.54	1339	1.38
		2300	0.24	935	0.67	0.50	1021	0.81	0.92	1162	1.06	1.07	1211	1.15	1.36	1305	1.34
		2400	0.05	901	0.65	0.31	987	0.78	0.74	1127	1.03	0.89	1176	1.12	1.17	1270	1.31
		1600	1.16	1199	0.87	1.34	1288	1.02	—	—	—	—	—	—	—	—	—
		1700	1.04	1161	0.84	1.22	1251	0.99	1.52	1397	1.27	—	—	—	—	—	—
		1800	0.92	1124	0.81	1.10	1213	0.96	1.40	1360	1.24	1.51	1411	1.34	—	—	—
5	TSC060G3,4,W Horizontal Airflow	1900	0.80	1086	0.78	0.98	1176	0.93	1.28	1322	1.20	1.39	1373	1.31	—	—	—
		2000	0.68	1049	0.76	0.86	1138	0.90	1.16	1285	1.17	1.27	1336	1.27	1.47	1434	1.48
		2100	0.56	1011	0.73	0.75	1101	0.87	1.05	1248	1.14	1.15	1298	1.23	1.35	1396	1.44
		2200	0.44	974	0.70	0.63	1064	0.84	0.93	1210	1.10	1.03	1261	1.20	1.23	1359	1.40
		2300	0.32	936	0.68	0.51	1026	0.81	0.81	1173	1.07	0.91	1223	1.16	1.11	1321	1.36
		2400	0.20	899	0.65	0.39	989	0.78	0.69	1135	1.03	0.79	1186	1.13	0.99	1284	1.32

For 036 Models Fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16.

For 048 & 060 Models Fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15

Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) For electric heat applications, minimum airflow is set to 320 cfm/ton, unless specified otherwise, values found in electric heat temperature rise table.

(b) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

Table 10. Multispeed direct drive evaporator fan performance 3 to 5 tons - standard efficiency - low & medium gas heat YSC036G3,4,W, YSC048G3,4,W, YSC060G3,4,W

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (bhp) ^(a)														
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	YSC036G3,4,W Downflow Airflow	960	0.39	689	0.175	0.72	853	0.29	1.10	998	0.43	1.53	1136	0.61	—	—	—
		1020	0.32	663	0.169	0.64	832	0.28	1.02	978	0.42	1.43	1117	0.60	—	—	—
		1080	0.25	637	0.162	0.56	811	0.28	0.93	958	0.42	1.34	1099	0.59	—	—	—
		1140	0.18	612	0.156	0.48	790	0.27	0.84	938	0.41	1.24	1080	0.58	—	—	—
		1200	0.11	586	0.149	0.40	769	0.26	0.75	918	0.40	1.15	1061	0.57	1.47	1162	0.71
		1260	0.04	561	0.143	0.32	748	0.25	0.67	898	0.39	1.05	1043	0.56	1.39	1143	0.69
		1320	—	—	—	0.25	726	0.25	0.58	878	0.38	0.96	1024	0.55	1.30	1123	0.68
		1380	—	—	—	0.17	705	0.24	0.49	858	0.37	0.86	1005	0.54	1.22	1104	0.67
		1440	—	—	—	0.09	684	0.23	0.41	838	0.36	0.77	987	0.53	1.13	1084	0.66
3	YSC036G3,4,W Horizontal Airflow	960	0.42	681	0.174	0.70	839	0.29	1.05	982	0.43	1.42	1099	0.59	—	—	—
		1020	0.35	656	0.167	0.63	816	0.28	0.97	961	0.42	1.34	1080	0.58	—	—	—
		1080	0.28	630	0.161	0.56	793	0.27	0.90	940	0.41	1.25	1061	0.57	—	—	—
		1140	0.22	605	0.154	0.49	770	0.26	0.82	919	0.40	1.17	1042	0.56	1.46	1152	0.70
		1200	0.15	579	0.148	0.43	747	0.25	0.75	898	0.39	1.09	1023	0.55	1.39	1135	0.69
		1260	0.08	554	0.141	0.36	724	0.25	0.68	877	0.38	1.01	1005	0.54	1.33	1117	0.68
		1320	0.01	528	0.135	0.29	701	0.24	0.60	856	0.37	0.93	986	0.53	1.26	1100	0.67
		1380	—	—	—	0.22	678	0.23	0.53	835	0.36	0.85	967	0.52	1.19	1083	0.66
		1440	—	—	—	0.16	655	0.22	0.45	814	0.35	0.77	948	0.51	1.12	1066	0.65
4	YSC048G3,4,W Downflow Airflow	1280	0.67	887	0.36	0.84	994	0.46	—	—	—	—	—	—	—	—	—
		1360	0.55	854	0.34	0.70	959	0.45	0.94	1049	0.56	1.17	1133	0.68	—	—	—
		1440	0.44	821	0.33	0.57	924	0.43	0.80	1015	0.54	1.02	1098	0.66	—	—	—
		1520	0.32	788	0.32	0.44	889	0.41	0.65	980	0.52	0.87	1063	0.64	1.47	1210	0.87
		1600	0.20	755	0.30	0.30	854	0.40	0.51	945	0.50	0.72	1028	0.61	1.32	1181	0.84
		1680	0.08	722	0.29	0.17	819	0.38	0.37	910	0.48	0.57	993	0.59	1.17	1151	0.82
		1760	—	—	—	0.03	783	0.37	0.23	876	0.47	0.42	958	0.57	1.03	1121	0.80
		1840	—	—	—	—	—	—	0.08	841	0.45	0.28	923	0.55	0.88	1092	0.78
		1920	—	—	—	—	—	—	—	—	—	0.13	888	0.53	0.73	1062	0.76
4	YSC048G3,4,W Horizontal Airflow	1280	0.69	872	0.35	0.83	934	0.44	—	—	—	—	—	—	—	—	—
		1360	0.58	839	0.34	0.72	902	0.42	0.91	980	0.52	1.09	1057	0.63	—	—	—
		1440	0.47	806	0.32	0.62	869	0.41	0.80	948	0.50	0.97	1026	0.61	—	—	—
		1520	0.35	773	0.31	0.51	837	0.39	0.69	915	0.49	0.86	994	0.59	1.47	1204	0.86
		1600	0.24	739	0.30	0.40	804	0.38	0.58	883	0.47	0.74	962	0.57	1.33	1173	0.84
		1680	0.13	706	0.28	0.30	772	0.36	0.47	851	0.45	0.62	931	0.56	1.20	1142	0.82
		1760	0.02	673	0.27	0.19	739	0.34	0.36	819	0.44	0.51	899	0.54	1.06	1112	0.80
		1840	—	—	—	0.09	707	0.33	0.25	787	0.42	0.39	868	0.52	0.93	1081	0.77
		1920	—	—	—	—	—	—	0.13	755	0.40	0.28	836	0.50	0.79	1051	0.75
5	YSC060G3,4,W Downflow Airflow	1600	0.79	998	0.58	1.07	1083	0.69	1.31	1183	0.83	—	—	—	—	—	—
		1700	0.62	956	0.55	0.92	1043	0.67	1.12	1144	0.80	1.21	1179	0.89	—	—	—
		1800	0.45	913	0.53	0.77	1004	0.64	0.93	1105	0.77	1.01	1136	0.86	—	—	—
		1900	0.28	870	0.50	0.62	964	0.62	0.74	1066	0.75	0.82	1094	0.83	1.23	1188	1.02
		2000	0.11	828	0.48	0.47	924	0.59	0.54	1027	0.72	0.62	1052	0.80	1.03	1150	0.99
		2100	—	—	—	0.32	885	0.57	0.35	987	0.69	0.43	1009	0.76	0.82	1111	0.96
		2200	—	—	—	0.17	845	0.54	0.16	948	0.66	0.23	967	0.73	0.61	1073	0.93
		2300	—	—	—	0.02	805	0.52	—	—	—	0.04	924	0.70	0.40	1035	0.89
		2400	—	—	—	—	—	—	—	—	—	—	—	—	0.20	997	0.86
5	YSC060G3,4,W Horizontal Airflow	1600	0.84	989	0.57	0.97	1049	0.67	1.16	1144	0.80	1.32	1159	0.88	—	—	—
		1700	0.68	945	0.55	0.82	1008	0.65	1.00	1104	0.77	1.16	1119	0.85	—	—	—
		1800	0.52	901	0.52	0.66	966	0.62	0.84	1064	0.74	1.00	1079	0.82	—	—	—
		1900	0.36	857	0.49	0.51	924	0.59	0.68	1024	0.72	0.84	1039	0.79	1.26	1189	1.03
		2000	0.20	813	0.47	0.36	882	0.57	0.52	984	0.69	0.67	999	0.76	1.07	1148	0.99
		2100	0.04	769	0.44	0.21	840	0.54	0.36	944	0.66	0.51	959	0.73	0.89	1106	0.95
		2200	—	—	—	0.05	799	0.51	0.20	904	0.63	0.35	918	0.70	0.70	1065	0.92
		2300	—	—	—	—	—	—	0.04	864	0.60	0.19	878	0.67	0.52	1023	0.88
		2400	—	—	—	—	—	—	—	—	—	0.03	838	0.64	0.33	982	0.85

For 036 models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16.

For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.

Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

Table 11. Multispeed direct drive evaporator fan performance 3 to 5 tons - standard efficiency - oversized motor - low and medium gas heat YSC036G3,4,W, YSC048G3,4,W, YSC060G3,4,W

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (bhp) ^(a) ^(b)														
			Rated Speed Set 1			Std Low Speed Speed Set 2			Mid Speed Speed Set 3			Std High Speed Speed Set 4			OS High Speed Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	YSC036G3,4,W Downflow Airflow	960	1.16	967	0.43	—	—	—	—	—	—	—	—	—	—	—	—
		1020	1.07	947	0.42	—	—	—	—	—	—	—	—	—	—	—	—
		1080	0.98	927	0.41	—	—	—	—	—	—	—	—	—	—	—	—
		1140	0.90	908	0.41	1.43	1101	0.65	—	—	—	—	—	—	—	—	—
		1200	0.81	888	0.40	1.35	1081	0.64	1.47	1126	0.70	—	—	—	—	—	—
		1260	0.72	869	0.39	1.26	1062	0.63	1.39	1107	0.69	—	—	—	—	—	—
		1320	0.63	849	0.38	1.17	1042	0.62	1.30	1087	0.68	—	—	—	—	—	—
		1380	0.55	829	0.37	1.09	1022	0.60	1.21	1067	0.67	1.42	1143	0.78	—	—	—
3	YSC036G3,4,W Horizontal Airflow	1440	0.46	810	0.36	1.00	1003	0.59	1.12	1048	0.65	1.34	1123	0.76	1.45	1164	0.83
		960	0.99	1008	0.45	1.42	1199	0.71	—	—	—	—	—	—	—	—	—
		1020	0.92	985	0.44	1.35	1176	0.70	1.45	1221	0.76	—	—	—	—	—	—
		1080	0.85	963	0.43	1.28	1154	0.68	1.38	1198	0.75	—	—	—	—	—	—
		1140	0.77	940	0.42	1.20	1131	0.67	1.30	1176	0.73	1.47	1250	0.85	—	—	—
		1200	0.70	917	0.41	1.13	1108	0.65	1.23	1153	0.72	1.40	1228	0.84	1.49	1268	0.90
		1260	0.63	895	0.40	1.06	1086	0.64	1.16	1130	0.71	1.33	1205	0.82	1.42	1245	0.88
		1320	0.56	872	0.39	0.99	1063	0.63	1.09	1108	0.69	1.26	1182	0.80	1.35	1222	0.87
4	YSC048G3,4,W Downflow Airflow	1380	0.49	849	0.38	0.92	1040	0.61	1.02	1085	0.68	1.18	1160	0.79	1.27	1199	0.85
		1440	0.41	827	0.37	0.84	1018	0.60	0.94	1062	0.66	1.11	1137	0.77	1.20	1177	0.84
		1280	1.14	1023	0.58	—	—	—	—	—	—	—	—	—	—	—	—
		1360	1.03	997	0.56	1.42	1137	0.76	—	—	—	—	—	—	—	—	—
		1440	0.91	971	0.55	1.30	1110	0.74	—	—	—	—	—	—	—	—	—
		1520	0.79	944	0.53	1.18	1084	0.73	—	—	—	—	—	—	—	—	—
		1600	0.68	918	0.52	1.07	1058	0.71	1.53	1224	0.97	—	—	—	—	—	—
		1680	0.56	892	0.50	0.95	1032	0.69	1.41	1198	0.95	1.55	1246	1.03	—	—	—
4	YSC048G3,4,W Horizontal Airflow	1760	0.45	866	0.49	0.84	1006	0.67	1.30	1171	0.93	1.43	1220	1.01	—	—	—
		1840	0.33	840	0.47	0.72	980	0.66	1.18	1145	0.91	1.32	1194	0.99	1.54	1274	1.13
		1920	0.21	814	0.46	0.61	953	0.64	1.07	1119	0.89	1.20	1167	0.97	1.43	1248	1.11
		1280	0.96	1046	0.59	1.28	1185	0.79	—	—	—	—	—	—	—	—	—
		1360	0.87	1016	0.58	1.18	1154	0.77	—	—	—	—	—	—	—	—	—
		1440	0.77	986	0.56	1.08	1124	0.75	1.45	1288	1.02	—	—	—	—	—	—
		1520	0.68	956	0.54	0.99	1094	0.73	1.36	1258	1.00	1.46	1306	1.08	—	—	—
		1600	0.58	925	0.52	0.89	1064	0.71	1.26	1228	0.97	1.37	1275	1.06	1.55	1355	1.20
5	YSC060G3,4,W Downflow Airflow	1680	0.48	895	0.51	0.8	1033	0.69	1.16	1197	0.95	1.27	1245	1.03	1.45	1325	1.18
		1760	0.39	865	0.49	0.70	1003	0.67	1.07	1167	0.93	1.17	1215	1.01	1.35	1294	1.15
		1840	0.29	834	0.47	0.60	973	0.65	0.97	1137	0.90	1.08	1185	0.98	1.26	1264	1.12
		1920	0.20	804	0.45	0.51	943	0.63	0.88	1107	0.88	0.98	1154	0.96	1.16	1234	1.10
		1600	1.44	1134	0.82	—	—	—	—	—	—	—	—	—	—	—	—
		1700	1.24	1099	0.79	1.50	1181	0.94	—	—	—	—	—	—	—	—	—
		1800	1.04	1065	0.77	1.30	1147	0.91	—	—	—	—	—	—	—	—	—
		1900	0.84	1031	0.74	1.11	1113	0.88	1.53	1247	1.13	—	—	—	—	—	—
5	YSC060G3,4,W Horizontal Airflow	2000	0.65	997	0.72	0.91	1079	0.86	1.33	1213	1.10	1.48	1259	1.20	—	—	—
		2100	0.45	962	0.69	0.71	1044	0.83	1.13	1178	1.07	1.28	1225	1.16	—	—	—
		2200	0.25	928	0.67	0.51	1010	0.80	0.94	1144	1.04	1.08	1191	1.13	1.37	1280	1.32
		2300	0.05	894	0.64	0.31	976	0.77	0.74	1110	1.01	0.89	1156	1.10	1.17	1246	1.28
		2400	—	—	—	0.11	942	0.75	0.54	1076	0.98	0.69	1122	1.07	0.97	1212	1.25
		1600	1.05	1151	0.83	1.24	1237	0.98	—	—	—	—	—	—	—	—	—
		1700	0.92	1114	0.80	1.11	1200	0.95	1.41	1340	1.22	1.51	1389	1.32	—	—	—
		1800	0.79	1076	0.78	0.98	1162	0.92	1.28	1303	1.19	1.38	1352	1.29	—	—	—
5	YSC060G3,4,W Horizontal Airflow	1900	0.66	1039	0.75	0.84	1125	0.89	1.15	1265	1.15	1.25	1314	1.25	1.45	1408	1.45
		2000	0.53	1001	0.72	0.71	1087	0.86	1.01	1228	1.12	1.12	1277	1.21	1.32	1371	1.41
		2100	0.40	964	0.69	0.58	1050	0.83	0.88	1190	1.08	0.99	1239	1.18	1.19	1333	1.37
		2200	0.27	926	0.67	0.45	1012	0.80	0.75	1153	1.05	0.85	1202	1.14	1.06	1296	1.33
		2300	0.13	889	0.64	0.32	975	0.77	0.62	1115	1.01	0.72	1164	1.11	0.92	1258	1.29
		2400	0.00	851	0.61	0.19	937	0.74	0.49	1078	0.98	0.59	1127	1.07	0.79	1221	1.26

For 036 models, fan motor heat (MBh) = 2.72 x Fan bhp + 0.16.

For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan bhp + 0.15.

Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Data includes pressure drop due to wet coil and filters.

(b) For electric heat applications minimum airflow is set to 320 cfm/Ton, unless specified otherwise, values found in elec. heat temp rise table

Direct Drive - Evaporator Fan Performance

**Table 12. Multispeed direct drive evaporator fan performance 3 to 5 tons - standard efficiency - high gas heat
YSC036G3,4,W, YSC048G3,4,W, YSC060G3,4,W**

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (bhp) ^(a)														
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	YSC036G3,4,W Downflow Airflow	960	0.40	699	0.178	0.74	865	0.295	1.14	1017	0.441	1.57	1157	0.62	—	—	—
		1020	0.33	674	0.172	0.66	844	0.287	1.05	997	0.432	1.48	1139	0.61	—	—	—
		1080	0.26	649	0.165	0.58	823	0.280	0.96	978	0.424	1.38	1121	0.60	—	—	—
		1140	0.19	624	0.159	0.50	801	0.273	0.88	958	0.415	1.29	1102	0.59	—	—	—
		1200	0.12	599	0.152	0.43	780	0.266	0.79	939	0.407	1.20	1084	0.58	1.44	1154	0.70
		1260	0.05	574	0.146	0.35	759	0.258	0.71	919	0.398	1.10	1066	0.57	1.35	1135	0.69
		1320	—	—	—	0.27	737	0.251	0.62	899	0.390	1.01	1047	0.56	1.27	1117	0.68
		1380	—	—	—	0.19	716	0.244	0.54	880	0.381	0.92	1029	0.55	1.18	1098	0.67
3	YSC036G3,4,W Horizontal Airflow	1440	—	—	—	0.11	695	0.236	0.45	860	0.373	0.82	1011	0.54	1.09	1079	0.66
		960	0.42	695	0.177	0.70	839	0.29	1.05	982	0.43	1.43	1112	0.60	—	—	—
		1020	0.35	671	0.171	0.63	816	0.28	0.97	961	0.42	1.35	1093	0.59	—	—	—
		1080	0.29	646	0.165	0.56	793	0.27	0.90	940	0.41	1.27	1075	0.58	—	—	—
		1140	0.22	622	0.158	0.49	770	0.26	0.82	919	0.40	1.19	1057	0.57	1.49	1165	0.71
		1200	0.15	597	0.152	0.43	747	0.25	0.75	898	0.39	1.11	1038	0.56	1.41	1147	0.70
		1260	0.09	573	0.146	0.36	724	0.25	0.68	877	0.38	1.03	1020	0.55	1.34	1129	0.69
		1320	0.02	549	0.140	0.29	701	0.24	0.60	856	0.37	0.95	1002	0.54	1.26	1111	0.67
4	YSC048G3,4,W Downflow Airflow	1380	—	—	—	0.22	678	0.23	0.53	835	0.36	0.87	983	0.53	1.18	1093	0.66
		1440	—	—	—	0.16	655	0.22	0.45	814	0.35	0.79	965	0.52	1.10	1075	0.65
		1280	0.60	842	0.34	0.88	1023	0.47	—	—	—	—	—	—	—	—	—
		1360	0.50	811	0.33	0.74	990	0.45	1.18	1112	0.58	1.24	1141	0.66	—	—	—
		1440	0.39	781	0.31	0.60	956	0.44	1.04	1080	0.56	1.09	1107	0.64	—	—	—
		1520	0.29	750	0.30	0.47	922	0.42	0.90	1048	0.54	0.94	1074	0.62	—	—	—
		1600	0.18	719	0.29	0.33	889	0.41	0.76	1016	0.53	0.79	1040	0.60	1.28	1183	0.85
		1680	0.08	689	0.28	0.19	855	0.39	0.62	984	0.51	0.64	1007	0.58	1.13	1154	0.83
4	YSC048G3,4,W Horizontal Airflow	1760	—	—	—	0.06	821	0.38	0.48	952	0.49	0.49	974	0.56	0.99	1126	0.81
		1840	—	—	—	—	—	—	0.34	919	0.48	0.34	940	0.54	0.84	1097	0.78
		1920	—	—	—	—	—	—	0.20	887	0.46	0.18	907	0.52	0.69	1068	0.76
		1280	0.69	883	0.35	0.83	948	0.44	—	—	—	—	—	—	—	—	—
		1360	0.58	850	0.34	0.72	916	0.42	0.94	1007	0.52	1.16	1091	0.63	—	—	—
		1440	0.46	817	0.33	0.61	885	0.41	0.82	975	0.50	1.04	1060	0.61	—	—	—
		1520	0.35	784	0.31	0.51	853	0.39	0.71	944	0.49	0.92	1029	0.59	—	—	—
		1600	0.23	751	0.30	0.40	822	0.38	0.59	912	0.47	0.80	998	0.57	1.33	1181	0.84
5	YSC060G3,4,W Downflow Airflow	1680	0.12	718	0.29	0.29	790	0.36	0.48	880	0.46	0.68	967	0.56	1.19	1150	0.82
		1760	0.01	685	0.27	0.18	759	0.35	0.37	849	0.44	0.56	936	0.54	1.04	1119	0.80
		1840	—	—	—	0.08	727	0.33	0.25	817	0.42	0.44	905	0.52	0.90	1088	0.78
		1920	—	—	—	—	—	—	0.14	785	0.41	0.32	874	0.50	0.76	1057	0.76
		1600	0.79	998	0.58	1.08	1115	0.72	1.31	1193	0.85	—	—	—	—	—	—
		1700	0.62	956	0.56	0.89	1074	0.70	1.11	1151	0.82	1.25	1165	0.91	—	—	—
		1800	0.45	913	0.53	0.71	1032	0.67	0.92	1109	0.79	1.07	1123	0.87	—	—	—
		1900	0.28	870	0.51	0.52	991	0.64	0.73	1067	0.76	0.90	1081	0.84	1.17	1200	1.04
5	YSC060G3,4,W Horizontal Airflow	2000	0.11	828	0.48	0.33	949	0.61	0.53	1025	0.73	0.73	1039	0.81	0.97	1158	1.00
		2100	—	—	—	0.14	908	0.59	0.34	983	0.70	0.56	997	0.77	0.77	1116	0.96
		2200	—	—	—	—	—	—	0.15	941	0.67	0.39	955	0.74	0.57	1074	0.93
		2300	—	—	—	—	—	—	—	—	—	0.21	913	0.71	0.37	1032	0.89
		2400	—	—	—	—	—	—	—	—	—	0.04	871	0.68	0.17	990	0.85
		1600	0.84	1006	0.59	1.00	1061	0.69	1.20	1132	0.81	1.42	1207	0.94	—	—	—
		1700	0.67	962	0.56	0.84	1017	0.66	1.03	1090	0.78	1.25	1165	0.91	—	—	—
		1800	0.51	918	0.54	0.69	974	0.63	0.87	1047	0.75	1.07	1123	0.87	—	—	—
5	YSC060G3,4,W Horizontal Airflow	1900	0.34	874	0.51	0.53	931	0.60	0.71	1005	0.72	0.90	1081	0.84	1.26	1205	1.04
		2000	0.18	831	0.48	0.37	888	0.57	0.54	963	0.69	0.73	1039	0.81	1.06	1163	1.00
		2100	0.01	787	0.46	0.21	845	0.55	0.38	920	0.65	0.56	997	0.77	0.86	1120	0.97
		2200	—	—	—	0.05	802	0.52	0.21	878	0.62	0.39	955	0.74	0.66	1077	0.93
		2300	—	—	—	—	—	—	0.05	836	0.59	0.21	913	0.71	0.46	1034	0.89
		2400	—	—	—	—	—	—	—	—	—	0.04	871	0.68	0.26	991	0.86

For 036 models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16.

For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.

Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

Table 13. Multispeed direct drive evaporator fan performance 3 to 5 tons - standard efficiency - oversized motor - high gas heat YSC036G3,4,W, YSC048G3,4,W, YSC060G3,4,W

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (bhp) ^{(a) (b)}														
			Rated Speed Set 1			Std Low Speed Speed Set 2			Mid Speed Speed Set 3			Std High Speed Speed Set 4			OS High Speed Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	YSC036G3,4,W Downflow Airflow	960	1.16	967	0.43	—	—	—	—	—	—	—	—	—	—	—	—
		1020	1.07	947	0.42	—	—	—	—	—	—	—	—	—	—	—	—
		1080	0.98	927	0.41	—	—	—	—	—	—	—	—	—	—	—	—
		1140	0.90	908	0.41	1.43	1101	0.65	—	—	—	—	—	—	—	—	—
		1200	0.81	888	0.40	1.35	1081	0.64	1.47	1126	0.70	—	—	—	—	—	—
		1260	0.72	869	0.39	1.26	1062	0.63	1.39	1107	0.69	—	—	—	—	—	—
		1320	0.63	849	0.38	1.17	1042	0.62	1.30	1087	0.68	1.51	1163	0.79	—	—	—
		1380	0.55	829	0.37	1.09	1022	0.60	1.21	1067	0.67	1.42	1143	0.78	1.53	1183	0.84
3	YSC036G3,4,W Horizontal Airflow	1440	0.46	810	0.36	1.00	1003	0.59	1.12	1048	0.65	1.34	1123	0.76	1.45	1164	0.83
		960	0.99	1008	0.45	1.42	1199	0.71	—	—	—	—	—	—	—	—	—
		1020	0.92	985	0.44	1.35	1176	0.70	1.45	1221	0.76	—	—	—	—	—	—
		1080	0.85	963	0.43	1.28	1154	0.68	1.38	1198	0.75	—	—	—	—	—	—
		1140	0.77	940	0.42	1.20	1131	0.67	1.30	1176	0.73	1.47	1250	0.85	—	—	—
		1200	0.70	917	0.41	1.13	1108	0.65	1.23	1153	0.72	1.40	1228	0.84	1.49	1268	0.90
		1260	0.63	895	0.40	1.06	1086	0.64	1.16	1130	0.71	1.33	1205	0.82	1.42	1245	0.88
		1320	0.56	872	0.39	0.99	1063	0.63	1.09	1108	0.69	1.26	1182	0.80	1.35	1222	0.87
4	YSC048G3,4,W Downflow Airflow	1380	0.49	849	0.38	0.92	1040	0.61	1.02	1085	0.68	1.18	1160	0.79	1.27	1199	0.85
		1440	0.41	827	0.37	0.84	1018	0.60	0.94	1062	0.66	1.11	1137	0.77	1.20	1177	0.84
		1280	1.14	1023	0.58	—	—	—	—	—	—	—	—	—	—	—	—
		1360	1.03	997	0.56	1.42	1137	0.76	—	—	—	—	—	—	—	—	—
		1440	0.91	971	0.55	1.30	1110	0.74	—	—	—	—	—	—	—	—	—
		1520	0.79	944	0.53	1.18	1084	0.73	—	—	—	—	—	—	—	—	—
		1600	0.68	918	0.52	1.07	1058	0.71	1.53	1224	0.97	—	—	—	—	—	—
		1680	0.56	892	0.50	0.95	1032	0.69	1.41	1198	0.95	—	—	—	—	—	—
4	YSC048G3,4,W Horizontal Airflow	1760	0.45	866	0.49	0.84	1006	0.67	1.30	1171	0.93	—	—	—	—	—	—
		1840	0.33	840	0.47	0.72	980	0.66	1.18	1145	0.91	1.54	1274	1.13	—	—	—
		1920	0.21	814	0.46	0.61	953	0.64	1.07	1119	0.89	1.43	1248	1.11	1.54	1288	1.18
		1280	0.96	1046	0.59	1.28	1185	0.79	—	—	—	—	—	—	—	—	—
		1360	0.87	1016	0.58	1.18	1154	0.77	—	—	—	—	—	—	—	—	—
		1440	0.77	986	0.56	1.08	1124	0.75	1.45	1288	1.02	—	—	—	—	—	—
		1520	0.68	956	0.54	0.99	1094	0.73	1.36	1258	1.00	—	—	—	—	—	—
		1600	0.58	925	0.52	0.89	1064	0.71	1.26	1228	0.97	—	—	—	—	—	—
5	YSC060G3,4,W Downflow Airflow	1680	0.48	895	0.51	0.8	1033	0.69	1.16	1197	0.95	1.45	1325	1.18	—	—	—
		1760	0.39	865	0.49	0.70	1003	0.67	1.07	1167	0.93	1.35	1294	1.15	1.44	1334	1.23
		1840	0.29	834	0.47	0.60	973	0.65	0.97	1137	0.90	1.26	1264	1.12	1.35	1304	1.20
		1920	0.20	804	0.45	0.51	943	0.63	0.88	1107	0.88	1.16	1234	1.10	1.25	1274	1.17
		1600	1.44	1134	0.82	—	—	—	—	—	—	—	—	—	—	—	—
		1700	1.24	1099	0.79	1.50	1181	0.94	—	—	—	—	—	—	—	—	—
		1800	1.04	1065	0.77	1.30	1147	0.91	—	—	—	—	—	—	—	—	—
		1900	0.84	1031	0.74	1.11	1113	0.88	—	—	—	—	—	—	—	—	—
5	YSC060G3,4,W Horizontal Airflow	2000	0.65	997	0.72	0.91	1079	0.86	1.33	1213	1.10	1.48	1259	1.20	—	—	—
		2100	0.45	962	0.69	0.71	1044	0.83	1.13	1178	1.07	1.28	1225	1.16	—	—	—
		2200	0.25	928	0.67	0.51	1010	0.80	0.94	1144	1.04	1.08	1191	1.13	1.37	1280	1.32
		2300	0.05	894	0.64	0.31	976	0.77	0.74	1110	1.01	0.89	1156	1.10	1.17	1246	1.28
		2400	—	—	—	0.11	942	0.75	0.54	1076	0.98	0.69	1122	1.07	0.97	1212	1.25
		1600	1.05	1151	0.83	1.24	1237	0.98	—	—	—	—	—	—	—	—	—
		1700	0.92	1114	0.80	1.11	1200	0.95	1.41	1340	1.22	1.51	1389	1.32	—	—	—
		1800	0.79	1076	0.78	0.98	1162	0.92	1.28	1303	1.19	1.38	1352	1.29	—	—	—
5	YSC060G3,4,W Horizontal Airflow	1900	0.66	1039	0.75	0.84	1125	0.89	1.15	1265	1.15	1.25	1314	1.25	1.45	1408	1.45
		2000	0.53	1001	0.72	0.71	1087	0.86	1.01	1228	1.12	1.12	1277	1.21	1.32	1371	1.41
		2100	0.40	964	0.69	0.58	1050	0.83	0.88	1190	1.08	0.99	1239	1.18	1.19	1333	1.37
		2200	0.27	926	0.67	0.45	1012	0.80	0.75	1153	1.05	0.85	1202	1.14	1.06	1296	1.33
		2300	0.13	889	0.64	0.32	975	0.77	0.62	1115	1.01	0.72	1164	1.11	0.92	1258	1.29
		2400	0.00	851	0.61	0.19	937	0.74	0.49	1078	0.98	0.59	1127	1.07	0.79	1221	1.26

For 036 models, fan motor heat (MBh) = 2.72 x Fan bhp + 0.16.

For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan bhp + 0.15.

Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Data includes pressure drop due to wet coil and filters.

(b) For electric heat applications minimum airflow is set to 320 cfm/Ton, unless specified otherwise, values found in elec. heat temp rise table

Direct Drive - Evaporator Fan Performance

**Table 14. Multispeed direct drive evaporator fan performance 3 to 5 tons - high efficiency - no electric heat
THC036E1,3,4,W/THC048 and THC060E3,4W/THC048F and THC060F1,3,4W**

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (bhp) ^{(a),(b)}														
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	THC036E1,3,4,W Downflow Airflow	960	0.45	715	0.21	0.74	851	0.31	0.92	929	0.38	1.07	993	0.44	1.25	1053	0.52
		1020	0.39	695	0.20	0.66	826	0.30	0.84	905	0.37	0.99	969	0.43	1.17	1030	0.50
		1080	0.33	675	0.20	0.59	800	0.29	0.77	880	0.36	0.91	945	0.42	1.08	1007	0.49
		1140	0.27	654	0.19	0.51	774	0.28	0.69	855	0.35	0.83	921	0.41	1.00	985	0.48
		1200	0.21	634	0.18	0.43	749	0.27	0.61	831	0.34	0.75	898	0.40	0.91	962	0.47
		1260	0.15	614	0.18	0.35	723	0.26	0.53	806	0.33	0.67	874	0.39	0.83	939	0.46
		1320	0.09	593	0.17	0.28	697	0.25	0.45	782	0.32	0.59	850	0.38	0.74	916	0.45
		1380	0.03	573	0.17	0.20	671	0.24	0.37	757	0.31	0.51	826	0.37	0.66	893	0.44
3	THC036E1,3,4,W Horizontal Airflow	1440	—	—	—	0.12	646	0.23	0.29	732	0.30	0.43	802	0.36	0.57	871	0.43
		960	0.45	711	0.21	0.70	835	0.30	0.89	913	0.37	1.04	978	0.44	1.21	1037	0.51
		1020	0.39	689	0.20	0.63	811	0.29	0.81	890	0.36	0.96	957	0.43	1.13	1016	0.50
		1080	0.32	667	0.19	0.56	787	0.28	0.73	868	0.35	0.88	935	0.42	1.04	996	0.49
		1140	0.26	644	0.19	0.48	763	0.28	0.65	845	0.34	0.80	913	0.41	0.95	975	0.48
		1200	0.20	622	0.18	0.41	739	0.27	0.57	823	0.33	0.72	892	0.40	0.87	955	0.47
		1260	0.13	599	0.17	0.33	715	0.26	0.50	800	0.32	0.64	870	0.39	0.78	934	0.46
		1320	0.07	577	0.17	0.26	691	0.25	0.42	777	0.32	0.56	848	0.38	0.69	913	0.45
4	THC048E3,4,W/ THC048F1,3,4,W Downflow Airflow	1380	0.01	555	0.16	0.18	667	0.24	0.34	755	0.31	0.48	826	0.37	0.61	893	0.44
		1440	—	—	—	0.11	642	0.23	0.26	732	0.30	0.40	805	0.36	0.52	872	0.43
		1280	0.65	805	0.31	0.86	902	0.40	1.04	966	0.48	1.27	1042	0.58	—	—	—
		1360	0.55	769	0.30	0.76	866	0.38	0.94	934	0.46	1.17	1010	0.56	1.43	1113	0.68
		1440	0.46	733	0.28	0.66	830	0.37	0.84	902	0.44	1.06	977	0.54	1.31	1078	0.66
		1520	0.36	696	0.27	0.56	794	0.35	0.74	869	0.43	0.95	944	0.52	1.20	1043	0.64
		1600	0.27	660	0.25	0.46	758	0.33	0.63	837	0.41	0.85	912	0.50	1.08	1009	0.62
		1680	0.17	624	0.24	0.36	722	0.32	0.53	805	0.40	0.74	879	0.49	0.97	974	0.60
4	THC048E3,4,W/ THC048F1,3,4,W Horizontal Airflow	1760	—	—	—	0.26	686	0.30	0.43	772	0.38	0.63	847	0.47	0.85	939	0.58
		1840	—	—	—	0.16	650	0.29	0.33	740	0.36	0.53	814	0.45	0.74	905	0.55
		1920	—	—	—	0.06	614	0.27	0.23	707	0.35	0.42	782	0.43	0.62	870	0.53
		1280	0.56	795	0.31	0.77	880	0.39	0.95	967	0.48	1.16	1040	0.57	—	—	—
		1360	0.48	760	0.29	0.67	847	0.37	0.86	935	0.46	1.06	1010	0.56	1.26	1105	0.68
		1440	0.39	725	0.28	0.58	814	0.36	0.76	903	0.44	0.96	980	0.54	1.16	1075	0.66
		1520	0.30	690	0.27	0.48	780	0.34	0.66	871	0.43	0.86	951	0.53	1.06	1045	0.64
		1600	0.22	655	0.25	0.39	747	0.33	0.57	838	0.41	0.76	921	0.51	0.96	1016	0.62
5	THC060E3,4,W/ THC060F1,3,4,W Downflow Airflow	1680	0.13	619	0.24	0.30	714	0.31	0.47	806	0.40	0.66	891	0.49	0.86	986	0.60
		1760	—	—	—	0.20	681	0.30	0.37	774	0.38	0.56	861	0.48	0.76	956	0.59
		1840	—	—	—	0.11	647	0.29	0.28	742	0.37	0.46	831	0.46	0.66	926	0.57
		1920	—	—	—	0.01	614	0.27	0.18	710	0.35	0.36	802	0.44	0.56	896	0.55
		1600	0.82	918	0.50	1.04	1002	0.60	1.26	1087	0.72	—	—	—	—	—	—
		1700	0.67	873	0.47	0.89	957	0.58	1.11	1043	0.69	—	—	—	—	—	—
		1800	0.53	828	0.45	0.74	913	0.55	0.96	1000	0.66	1.16	1083	0.78	—	—	—
		1900	0.39	782	0.42	0.59	869	0.52	0.82	957	0.63	1.02	1041	0.75	1.17	1099	0.85
5	THC060E3,4,W/ THC060F1,3,4,W Horizontal Airflow	2000	0.25	737	0.40	0.45	824	0.50	0.67	914	0.60	0.87	999	0.72	1.02	1056	0.82
		2100	0.11	692	0.37	0.30	780	0.47	0.52	870	0.58	0.72	957	0.69	0.87	1014	0.78
		2200	—	—	—	0.15	735	0.44	0.37	827	0.55	0.57	914	0.66	0.71	971	0.75
		2300	—	—	—	0.00	691	0.42	0.22	784	0.52	0.42	872	0.63	0.56	929	0.72
		2400	—	—	—	—	—	—	0.07	741	0.49	0.27	830	0.60	0.41	886	0.68
		1600	0.71	918	0.50	0.91	1001	0.60	1.09	1070	0.71	—	—	—	—	—	—
		1700	0.59	875	0.47	0.78	959	0.58	0.96	1029	0.68	1.11	1102	0.79	—	—	—
		1800	0.46	832	0.45	0.65	916	0.55	0.82	987	0.65	0.97	1063	0.77	—	—	—
5	THC060E3,4,W/ THC060F1,3,4,W Horizontal Airflow	1900	0.33	788	0.43	0.51	874	0.53	0.68	945	0.62	0.84	1023	0.74	1.01	1093	0.85
		2000	0.21	745	0.40	0.38	831	0.50	0.54	903	0.60	0.71	984	0.71	0.87	1052	0.81
		2100	0.08	701	0.38	0.25	788	0.47	0.41	861	0.57	0.57	944	0.68	0.73	1010	0.78
		2200	—	—	—	0.12	746	0.45	0.27	819	0.54	0.44	904	0.65	0.59	968	0.75
		2300	—	—	—	—	—	—	0.13	778	0.51	0.31	865	0.62	0.45	926	0.72
		2400	—	—	—	—	—	—	—	—	—	0.17	825	0.59	0.31	884	0.68

For 036 models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16. For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

- (a) For electric heat applications, minimum airflow is set to 320/ton, unless specified otherwise, values found in electric heat temperature rise table.
(b) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

Table 15. Multispeed direct drive evaporator fan performance 3 to 5 tons - high efficiency - low & medium gas heat YHC036E1,3,4,W/YHC048 and 060E3,4,W/YHC048F and YHC060F1,3,4,W

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (bhp) ^(a)														
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	YHC036E1,3,4,W*L,M Downflow Airflow	960	0.43	718	0.19	0.64	825	0.27	0.88	923	0.35	1.12	1017	0.46	1.28	1074	0.52
		1020	0.37	696	0.18	0.57	800	0.26	0.80	900	0.35	1.04	997	0.45	1.20	1053	0.51
		1080	0.30	675	0.18	0.49	775	0.26	0.72	877	0.34	0.96	977	0.44	1.11	1033	0.50
		1140	0.24	654	0.17	0.42	749	0.25	0.64	854	0.33	0.87	957	0.43	1.03	1013	0.49
		1200	0.18	633	0.17	0.34	724	0.24	0.56	832	0.32	0.79	938	0.42	0.94	992	0.48
		1260	0.11	612	0.16	0.26	698	0.23	0.48	809	0.31	0.71	918	0.41	0.86	972	0.47
		1320	0.05	590	0.16	0.19	673	0.22	0.39	786	0.30	0.63	898	0.40	0.77	951	0.46
		1380	—	—	—	0.11	647	0.21	0.31	763	0.29	0.55	878	0.39	0.68	931	0.45
		1440	—	—	—	0.03	622	0.21	0.23	740	0.28	0.47	859	0.38	0.60	910	0.44
3	YHC036E1,3,4,W*L,M Horizontal Airflow	960	0.42	715	0.19	0.67	842	0.28	0.90	937	0.36	1.15	1037	0.46	1.25	1062	0.51
		1020	0.37	695	0.18	0.61	819	0.27	0.83	916	0.35	1.07	1014	0.45	1.18	1047	0.50
		1080	0.31	675	0.18	0.54	796	0.26	0.75	895	0.34	0.99	992	0.44	1.11	1032	0.50
		1140	0.26	654	0.17	0.47	772	0.26	0.68	874	0.34	0.91	970	0.43	1.04	1017	0.49
		1200	0.20	634	0.17	0.41	749	0.25	0.61	853	0.33	0.83	948	0.42	0.97	1002	0.48
		1260	0.14	614	0.16	0.34	725	0.24	0.54	832	0.32	0.75	926	0.41	0.90	987	0.48
		1320	0.09	594	0.16	0.27	702	0.23	0.47	811	0.31	0.67	903	0.40	0.83	972	0.47
		1380	0.03	574	0.15	0.20	678	0.22	0.40	789	0.30	0.59	881	0.39	0.76	957	0.46
		1440	—	—	—	0.14	654	0.22	0.33	768	0.29	0.51	859	0.38	0.69	942	0.45
4	YHC048***L,M Downflow Airflow	1280	0.69	820	0.33	0.88	903	0.41	1.07	969	0.49	1.07	969	0.49	1.27	1039	0.58
		1360	0.59	785	0.32	0.78	869	0.40	0.96	936	0.48	0.96	936	0.48	1.16	1007	0.56
		1440	0.49	750	0.30	0.68	835	0.38	0.86	903	0.46	0.86	903	0.46	1.05	976	0.55
		1520	0.40	714	0.29	0.58	801	0.37	0.75	870	0.44	0.75	870	0.44	0.94	944	0.53
		1600	0.30	679	0.27	0.48	767	0.35	0.65	837	0.42	0.65	837	0.42	0.84	912	0.51
		1680	0.20	643	0.26	0.38	733	0.34	0.54	804	0.41	0.54	804	0.41	0.73	881	0.49
		1760	0.10	608	0.25	0.28	699	0.32	0.44	771	0.39	0.44	771	0.39	0.62	849	0.48
		1840	0.01	572	0.23	0.18	666	0.31	0.33	738	0.37	0.33	738	0.37	0.51	817	0.46
		1920	—	—	—	0.08	632	0.29	0.23	705	0.36	0.23	705	0.36	0.41	786	0.44
4	YHC048***L,M Horizontal Airflow	1280	0.61	813	0.33	0.81	896	0.41	1.00	977	0.50	1.00	977	0.50	1.17	1044	0.58
		1360	0.51	777	0.31	0.70	862	0.40	0.89	944	0.48	0.89	944	0.48	1.06	1011	0.57
		1440	0.42	742	0.30	0.60	828	0.38	0.79	911	0.46	0.79	911	0.46	0.95	979	0.55
		1520	0.32	707	0.28	0.50	794	0.36	0.68	878	0.45	0.68	878	0.45	0.84	946	0.53
		1600	0.22	671	0.27	0.40	760	0.35	0.57	845	0.43	0.57	845	0.43	0.73	913	0.51
		1680	0.13	636	0.26	0.29	725	0.33	0.46	812	0.41	0.46	812	0.41	0.62	881	0.49
		1760	0.03	600	0.24	0.19	691	0.32	0.36	779	0.40	0.36	779	0.40	0.51	848	0.47
		1840	—	—	—	0.09	657	0.30	0.25	746	0.38	0.25	746	0.38	0.40	815	0.46
		1920	—	—	—	—	—	—	0.14	713	0.36	0.14	713	0.36	0.29	783	0.44
5	YHC060***L,M Downflow Airflow	1600	0.90	962	0.55	1.07	1027	0.64	1.28	1099	0.75	—	—	—	—	—	—
		1700	0.76	919	0.53	0.93	985	0.61	1.14	1060	0.72	—	—	—	—	—	—
		1800	0.62	875	0.50	0.78	943	0.59	0.99	1022	0.70	1.15	1092	0.81	—	—	—
		1900	0.48	832	0.48	0.64	900	0.56	0.84	984	0.67	1.00	1051	0.78	1.18	1116	0.89
		2000	0.34	788	0.45	0.49	858	0.53	0.70	945	0.65	0.86	1010	0.75	1.03	1076	0.86
		2100	0.20	745	0.43	0.35	815	0.51	0.55	907	0.62	0.71	969	0.72	0.88	1037	0.83
		2200	0.06	701	0.40	0.20	773	0.48	0.41	868	0.59	0.56	928	0.69	0.73	997	0.80
		2300	—	—	—	0.06	730	0.46	0.26	830	0.57	0.41	887	0.66	0.58	958	0.77
		2400	—	—	—	—	—	—	0.12	792	0.54	0.26	846	0.63	0.43	918	0.73
5	YHC060***L,M Horizontal Airflow	1600	0.75	944	0.54	0.91	1010	0.63	1.10	1094	0.75	—	—	—	—	—	—
		1700	0.61	899	0.52	0.77	969	0.60	0.96	1052	0.72	1.12	1114	0.82	—	—	—
		1800	0.48	855	0.49	0.63	927	0.58	0.82	1011	0.69	0.97	1074	0.79	—	—	—
		1900	0.34	811	0.47	0.49	885	0.55	0.67	969	0.66	0.83	1035	0.76	1.01	1111	0.89
		2000	0.20	766	0.44	0.35	843	0.53	0.53	928	0.63	0.68	995	0.74	0.87	1070	0.85
		2100	0.07	722	0.42	0.21	801	0.50	0.39	887	0.61	0.54	956	0.71	0.72	1028	0.82
		2200	—	—	—	0.07	759	0.47	0.25	845	0.58	0.39	916	0.68	0.57	987	0.79
		2300	—	—	—	—	—	—	0.10	804	0.55	0.25	877	0.65	0.42	945	0.76
		2400	—	—	—	—	—	—	—	—	—	0.10	837	0.62	0.27	904	0.72

For 036 models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16. For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

Table 16. Multispeed direct drive evaporator fan performance 3 to 5 tons - high efficiency - high heat YHC036E1,3,4,W/ YHC048 and 060E3,4,W/YHC048F and YHC060F1,3,4,W

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (bhp) ^(a)														
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	YHC036E1,3,4,W*H Downflow Airflow	960	0.43	718	0.19	0.64	825	0.26	0.88	923	0.34	1.12	1017	0.44	1.28	1074	0.51
		1020	0.37	696	0.19	0.57	800	0.26	0.80	900	0.34	1.04	997	0.43	1.20	1053	0.50
		1080	0.30	675	0.18	0.49	775	0.25	0.72	877	0.33	0.96	977	0.42	1.11	1033	0.49
		1140	0.24	654	0.18	0.42	749	0.24	0.64	854	0.32	0.87	957	0.42	1.03	1013	0.48
		1200	0.18	633	0.17	0.34	724	0.23	0.56	832	0.31	0.79	938	0.41	0.94	992	0.47
		1260	0.11	612	0.16	0.26	698	0.22	0.48	809	0.30	0.71	918	0.40	0.86	972	0.46
		1320	0.05	590	0.16	0.19	673	0.21	0.39	786	0.29	0.63	898	0.39	0.77	951	0.45
		1380	—	—	—	0.11	647	0.21	0.31	763	0.28	0.55	878	0.38	0.68	931	0.44
3	YHC036E1,3,4,W*H Horizontal Airflow	1440	—	—	—	0.03	622	0.20	0.23	740	0.28	0.47	859	0.37	0.60	910	0.43
		960	0.44	732	0.20	0.65	836	0.27	0.87	935	0.35	1.12	1033	0.45	1.25	1078	0.51
		1020	0.37	708	0.19	0.58	811	0.26	0.80	911	0.34	1.03	1010	0.44	1.17	1059	0.50
		1080	0.31	684	0.18	0.51	787	0.25	0.72	886	0.33	0.95	987	0.43	1.09	1040	0.49
		1140	0.24	660	0.18	0.43	762	0.24	0.64	862	0.32	0.87	964	0.42	1.01	1021	0.48
		1200	0.18	636	0.17	0.36	737	0.24	0.56	838	0.31	0.79	941	0.41	0.93	1002	0.47
		1260	0.11	612	0.16	0.29	712	0.23	0.48	814	0.30	0.70	918	0.40	0.85	983	0.47
		1320	0.05	588	0.16	0.21	688	0.22	0.40	789	0.29	0.62	895	0.39	0.77	964	0.46
4	YHC048***H Downflow Airflow	1380	—	—	—	0.14	663	0.21	0.32	765	0.28	0.54	872	0.38	0.69	945	0.45
		1440	—	—	—	0.07	638	0.20	0.24	741	0.28	0.45	849	0.37	0.61	926	0.44
		1280	0.69	833	0.35	0.90	924	0.43	1.07	989	0.51	1.07	989	0.51	1.27	1066	0.61
		1360	0.60	796	0.33	0.80	889	0.42	0.97	956	0.50	0.97	956	0.50	1.17	1033	0.59
		1440	0.50	759	0.32	0.71	855	0.40	0.87	922	0.48	0.87	922	0.48	1.06	1000	0.57
		1520	0.40	722	0.30	0.61	820	0.39	0.77	889	0.46	0.77	889	0.46	0.96	966	0.56
		1600	0.31	684	0.29	0.51	785	0.37	0.67	855	0.44	0.67	855	0.44	0.85	933	0.54
		1680	0.21	647	0.27	0.41	751	0.35	0.57	822	0.43	0.57	822	0.43	0.75	900	0.52
4	YHC048***H Horizontal Airflow	1760	0.12	610	0.26	0.31	716	0.34	0.47	788	0.41	0.47	788	0.41	0.64	867	0.50
		1840	—	—	—	0.22	681	0.32	0.37	755	0.39	0.37	755	0.39	0.54	834	0.48
		1920	—	—	—	0.12	647	0.30	0.27	721	0.37	0.27	721	0.37	0.43	801	0.46
		1280	0.60	822	0.34	0.81	912	0.43	0.97	986	0.51	0.97	986	0.51	1.18	1063	0.61
		1360	0.51	787	0.33	0.70	876	0.41	0.87	952	0.49	0.87	952	0.49	1.07	1031	0.59
		1440	0.41	752	0.31	0.60	840	0.40	0.76	918	0.48	0.76	918	0.48	0.96	998	0.57
		1520	0.31	718	0.30	0.49	805	0.38	0.66	885	0.46	0.66	885	0.46	0.84	966	0.56
		1600	0.22	683	0.29	0.38	769	0.36	0.55	851	0.44	0.55	851	0.44	0.73	933	0.54
5	YHC060***H Downflow Airflow	1680	0.12	648	0.27	0.28	733	0.34	0.45	818	0.42	0.45	818	0.42	0.62	901	0.52
		1760	0.03	613	0.26	0.17	697	0.33	0.34	784	0.41	0.34	784	0.41	0.51	868	0.50
		1840	—	—	—	0.07	661	0.31	0.23	750	0.39	0.23	750	0.39	0.40	836	0.48
		1920	—	—	—	—	—	—	0.13	717	0.37	0.13	717	0.37	0.29	803	0.46
		1600	0.90	955	0.57	1.06	1022	0.66	1.25	1095	0.77	—	—	—	—	—	—
		1700	0.76	910	0.54	0.92	977	0.63	1.11	1052	0.74	1.28	1113	0.85	—	—	—
		1800	0.62	865	0.52	0.77	932	0.60	0.96	1009	0.71	1.13	1072	0.82	—	—	—
		1900	0.47	819	0.49	0.63	888	0.57	0.82	966	0.68	0.98	1031	0.79	1.18	1105	0.91
5	YHC060***H Horizontal Airflow	2000	0.33	774	0.46	0.49	843	0.54	0.67	922	0.65	0.83	990	0.75	1.02	1062	0.87
		2100	0.19	729	0.44	0.34	798	0.52	0.52	879	0.62	0.68	949	0.72	0.87	1019	0.84
		2200	0.04	683	0.41	0.20	754	0.49	0.38	836	0.59	0.54	908	0.69	0.71	976	0.80
		2300	—	—	—	0.05	709	0.46	0.23	793	0.56	0.39	867	0.66	0.55	933	0.77
		2400	—	—	—	—	—	—	0.09	750	0.53	0.24	826	0.63	0.40	890	0.73
		1600	0.77	948	0.57	0.95	1016	0.66	1.10	1093	0.77	—	—	—	—	—	—
		1700	0.63	903	0.54	0.80	973	0.63	0.96	1052	0.74	—	—	—	—	—	—
		1800	0.48	859	0.51	0.66	930	0.60	0.81	1012	0.71	1.00	1084	0.83	—	—	—
5	YHC060***H Horizontal Airflow	1900	0.34	814	0.49	0.51	888	0.57	0.67	971	0.68	0.85	1042	0.79	1.01	1106	0.91
		2000	0.20	770	0.46	0.36	845	0.55	0.52	931	0.65	0.70	1000	0.76	0.86	1063	0.87
		2100	0.06	725	0.43	0.22	803	0.52	0.38	890	0.62	0.55	959	0.73	0.70	1021	0.84
		2200	—	—	—	0.07	760	0.49	0.23	850	0.60	0.39	917	0.70	0.54	979	0.80
		2300	—	—	—	—	—	—	0.09	809	0.57	0.24	875	0.67	0.39	937	0.77
		2400	—	—	—	—	—	—	—	—	0.00	0.09	833	0.63	0.23	894	0.73

For 036 models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16. For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

**Table 17. Multispeed direct drive evaporator fan performance (standard motor) 3 to 5 tons - no electric heat
WSC036/048/060H3,4,W**

Tons	Unit Model Number	cfm	External Static Pressure (in./water) & Motor Power (Bhp)														
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
			ESP	rpm	Bhp	ESP	rpm	Bhp	ESP	rpm	Bhp	ESP	rpm	Bhp	ESP	rpm	Bhp
3	WSC036H3,4,W Downflow Airflow	960	0.502	738	0.20	0.767	850	0.29	0.987	943	0.38	1.190	1029	0.47	-	-	-
		1020	0.419	717	0.19	0.683	829	0.28	0.904	923	0.37	1.107	1009	0.46	-	-	-
		1080	0.335	696	0.19	0.600	808	0.28	0.820	902	0.36	1.023	988	0.45	-	-	-
		1140	0.252	675	0.18	0.516	787	0.27	0.737	881	0.35	0.940	967	0.44	-	-	-
		1200	0.168	654	0.18	0.433	766	0.26	0.653	860	0.34	0.856	946	0.43	1.174	1080	0.58
		1260	0.084	633	0.17	0.349	746	0.25	0.570	839	0.34	0.773	925	0.42	1.090	1060	0.57
		1320	0.001	612.5	0.16	0.266	725	0.25	0.486	818	0.33	0.689	904	0.41	1.006	1039	0.56
		1380	-	-	-	0.182	704	0.24	0.403	797	0.32	0.605	883	0.40	0.923	1018	0.55
3	WSC036H3,4,W Horizontal Airflow	1440	-	-	-	0.098	683	0.23	0.319	776	0.31	0.522	862	0.39	0.839	997	0.54
		960	0.457	703	0.19	0.718	815	0.28	0.936	908	0.36	1.136	994	0.45	-	-	-
		1020	0.379	682	0.18	0.640	794	0.27	0.858	886	0.35	1.058	973	0.44	-	-	-
		1080	0.301	661	0.18	0.562	772	0.26	0.780	864	0.35	0.980	951	0.43	-	-	-
		1140	0.224	639	0.17	0.485	751	0.26	0.702	842	0.34	0.902	930	0.42	-	-	-
		1200	0.146	618	0.17	0.407	729	0.25	0.624	820	0.33	0.824	908	0.41	1.138	1042	0.56
		1260	0.068	596	0.16	0.329	708	0.24	0.546	798	0.32	0.746	887	0.40	1.060	1021	0.55
		1320	-	-	-	0.251	687	0.23	0.468	776	0.31	0.668	865	0.39	0.982	1000	0.54
4	WSC048H3,4,W Downflow Airflow	1380	-	-	-	0.173	665	0.23	0.390	754	0.30	0.591	844	0.38	0.904	978	0.53
		1440	-	-	-	0.095	644	0.22	0.312	731	0.29	0.513	823	0.37	0.826	957	0.52
		1280	0.72	918	0.38	0.96	1010	0.49	1.14	1077	0.58	-	-	-	-	-	-
		1360	0.57	885	0.37	0.82	977	0.47	1.00	1045	0.56	-	-	-	-	-	-
		1440	0.42	852	0.35	0.67	945	0.46	0.85	1012	0.54	-	-	-	-	-	-
		1520	0.27	819	0.34	0.52	912	0.44	0.70	979	0.52	1.13	1139	0.75	-	-	-
		1600	0.12	787	0.33	0.37	879	0.43	0.55	946	0.51	0.98	1106	0.72	1.19	1186	0.85
		1680	-	-	-	0.22	847	0.41	0.40	914	0.49	0.83	1073	0.70	1.05	1153	0.82
4	WSC048H3,4,W Horizontal Airflow	1760	-	-	-	0.07	814	0.40	0.25	881	0.47	0.68	1040	0.68	0.90	1120	0.80
		1840	-	-	-	-	-	-	0.11	848	0.45	0.53	1008	0.66	0.75	1088	0.78
		1920	-	-	-	-	-	-	-	-	-	0.39	975	0.64	0.60	1055	0.75
		1280	0.68	881	0.37	0.90	972	0.47	1.06	1038	0.56	-	-	-	-	-	-
		1360	0.56	849	0.35	0.78	940	0.46	0.94	1006	0.54	-	-	-	-	-	-
		1440	0.44	817	0.34	0.66	908	0.44	0.82	974	0.52	-	-	-	-	-	-
		1520	0.33	785	0.33	0.55	876	0.43	0.71	942	0.50	1.09	1099	0.72	-	-	-
		1600	0.21	754	0.31	0.43	845	0.41	0.59	911	0.49	0.97	1067	0.70	1.16	1146	0.82
5	WSC060H3,4,W Downflow Airflow	1680	0.09	722	0.30	0.31	813	0.39	0.47	879	0.47	0.85	1036	0.68	1.04	1114	0.80
		1760	-	-	-	0.19	781	0.38	0.35	847	0.45	0.73	1004	0.66	0.92	1082	0.77
		1840	-	-	-	0.07	749	0.36	0.23	815	0.44	0.61	972	0.64	0.80	1051	0.75
		1920	-	-	-	-	-	-	0.12	784	0.42	0.50	941	0.62	0.69	1019	0.73
		1600	0.87	830	0.46	1.00	909	0.53	1.20	996	0.64	-	-	-	-	-	-
		1700	0.73	795	0.44	0.86	873	0.51	1.05	960	0.62	-	-	-	-	-	-
		1800	0.59	759	0.42	0.72	837	0.49	0.91	924	0.59	1.12	1011	0.71	-	-	-
		1900	0.44	723	0.40	0.57	802	0.47	0.77	889	0.57	0.97	975	0.68	-	-	-
5	WSC060H3,4,W Horizontal Airflow	2000	0.30	687	0.38	0.43	766	0.45	0.62	853	0.55	0.83	940	0.66	1.20	1086	0.88
		2100	0.16	651	0.36	0.29	730	0.43	0.48	817	0.52	0.69	904	0.63	1.05	1050	0.85
		2200	0.01	616	0.34	0.14	694	0.41	0.34	781	0.50	0.54	868	0.61	0.91	1014	0.82
		2300	-	-	-	0.00	658	0.39	0.19	745	0.48	0.40	832	0.58	0.77	979	0.79
		2400	-	-	-	-	-	-	0.05	710	0.46	0.26	796	0.56	0.62	943	0.76
		1600	0.74	778	0.32	0.84	846	0.41	0.97	919	0.49	1.12	992	0.65	-	-	-
		1700	0.62	742	0.31	0.71	809	0.39	0.85	883	0.47	0.99	956	0.63	-	-	-
		1800	0.49	706	0.29	0.58	773	0.38	0.72	846	0.45	0.86	920	0.60	1.12	1042	0.84
5	WSC060H3,4,W Horizontal Airflow	1900	0.36	669	0.28	0.45	737	0.36	0.59	810	0.43	0.74	883	0.58	0.99	1006	0.81
		2000	0.23	633	0.26	0.32	700	0.34	0.46	774	0.41	0.61	847	0.55	0.87	970	0.78
		2100	0.10	596	0.25	0.20	664	0.32	0.33	737	0.39	0.48	810	0.53	0.74	933	0.75
		2200	-	-	-	0.07	628	0.30	0.21	701	0.38	0.35	774	0.51	0.61	897	0.72
		2300	-	-	-	-	-	-	0.08	665	0.36	0.22	738	0.48	0.48	861	0.69
		2400	-	-	-	-	-	-	-	-	-	0.10	701	0.46	0.35	824	0.66

1. For 036 models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16. For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
2. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.
3. For electric heat applications minimum airflow is set to 320 cfm/ton, unless specified otherwise, values found in electric heat temp rise table.
4. Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

**Table 18. Multispeed direct drive evaporator fan performance (oversized motor) 3 to 5 tons - no electric heat
WSC036/048/060H3,4,W**

Tons	Unit Model Number	cfm	External Static Pressure (in./water) & Motor Power (Bhp)														
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
			ESP	rpm	Bhp	ESP	rpm	Bhp	ESP	rpm	Bhp	ESP	rpm	Bhp	ESP	rpm	Bhp
3	WSC036H3,4,W Downflow Airflow	960	1.15	963	0.44	-	-	-	-	-	-	-	-	-	-	-	-
		1020	1.06	942	0.43	-	-	-	-	-	-	-	-	-	-	-	-
		1080	0.97	921	0.42	1.51	1157	0.69	-	-	-	-	-	-	-	-	-
		1140	0.88	900	0.41	1.42	1133	0.67	-	-	-	-	-	-	-	-	-
		1200	0.79	879	0.40	1.33	1109	0.66	1.45	1155	0.73	-	-	-	-	-	-
		1260	0.70	859	0.39	1.24	1086	0.65	1.36	1131	0.71	-	-	-	-	-	-
		1320	0.61	838	0.38	1.15	1062	0.63	1.28	1107	0.70	1.49	1184	0.81	-	-	-
		1380	0.52	817	0.37	1.06	1038	0.62	1.19	1084	0.68	1.40	1160	0.79	1.51	1201	0.86
3	WSC036H3,4,W Horizontal Airflow	1440	0.43	796	0.36	0.97	1015	0.60	1.10	1060	0.67	1.31	1136	0.78	1.42	1177	0.84
		960	1.14	1111	0.50	1.50	1164	0.69	-	-	-	-	-	-	-	-	-
		1020	1.06	1088	0.49	1.43	1141	0.68	-	-	-	-	-	-	-	-	-
		1080	0.99	1065	0.48	1.35	1118	0.67	1.44	1131	0.71	-	-	-	-	-	-
		1140	0.91	1042	0.47	1.28	1095	0.65	1.36	1108	0.70	1.50	1128	0.77	-	-	-
		1200	0.84	1019	0.46	1.20	1072	0.64	1.29	1085	0.68	1.43	1105	0.76	1.50	1117	0.80
		1260	0.76	996	0.45	1.13	1049	0.62	1.21	1062	0.67	1.35	1082	0.74	1.43	1093	0.78
		1320	0.69	973	0.44	1.05	1026	0.61	1.14	1038	0.65	1.28	1059	0.72	1.35	1070	0.76
4	WSC048H3,4,W Downflow Airflow	1380	0.61	950	0.43	0.98	1003	0.60	1.06	1015	0.64	1.20	1036	0.71	1.28	1047	0.75
		1440	0.54	927	0.42	0.90	980	0.58	0.99	992	0.62	1.13	1013	0.69	1.20	1024	0.73
		1280	1.12	1016	0.58	1.50	1159	0.78	-	-	-	-	-	-	-	-	-
		1360	1.00	988	0.56	1.39	1131	0.76	-	-	-	-	-	-	-	-	-
		1440	0.88	961	0.55	1.27	1104	0.74	-	-	-	-	-	-	-	-	-
		1520	0.77	933	0.53	1.15	1076	0.73	-	-	-	-	-	-	-	-	-
		1600	0.65	905	0.52	1.04	1048	0.71	1.50	1218	0.97	-	-	-	-	-	-
		1680	0.54	877	0.50	0.92	1020	0.69	1.38	1190	0.95	-	-	-	-	-	-
4	WSC048H3,4,W Horizontal Airflow	1760	0.42	850	0.49	0.81	993	0.67	1.26	1162	0.93	-	-	-	-	-	-
		1840	0.30	822	0.47	0.69	965	0.65	1.15	1134	0.90	1.50	1266	1.13	-	-	-
		1920	0.19	794	0.45	0.57	937	0.63	1.03	1107	0.88	1.39	1238	1.10	1.50	1279	1.18
		1280	1.04	1077	0.62	1.30	1121	0.76	-	-	-	-	-	-	-	-	-
		1360	0.94	1047	0.60	1.20	1091	0.74	-	-	-	-	-	-	-	-	-
		1440	0.84	1016	0.58	1.10	1061	0.72	1.41	1287	1.03	-	-	-	-	-	-
		1520	0.74	986	0.56	1.00	1030	0.70	1.31	1257	1.00	-	-	-	-	-	-
		1600	0.64	956	0.55	0.90	1000	0.67	1.21	1226	0.98	1.45	1340	1.20	-	-	-
5	WSC060H3,4,W Downflow Airflow	1680	0.54	925	0.53	0.80	970	0.65	1.11	1196	0.95	1.35	1310	1.17	1.43	1346	1.24
		1760	0.44	895	0.51	0.70	939	0.63	1.01	1166	0.93	1.25	1280	1.14	1.33	1315	1.21
		1840	0.34	865	0.49	0.60	909	0.61	0.91	1135	0.91	1.15	1249	1.11	1.23	1285	1.18
		1920	0.24	834	0.48	0.50	879	0.59	0.81	1105	0.88	1.05	1219	1.09	1.13	1255	1.16
		1600	1.23	905	0.52	1.50	1048	0.71	-	-	-	-	-	-	-	-	-
		1700	1.08	870	0.50	1.35	1014	0.68	-	-	-	-	-	-	-	-	-
		1800	0.94	836	0.48	1.21	979	0.66	-	-	-	-	-	-	-	-	-
		1900	0.79	801	0.46	1.06	944	0.64	1.50	1113	0.89	-	-	-	-	-	-
5	WSC060H3,4,W Horizontal Airflow	2000	0.65	766	0.44	0.92	909	0.61	1.35	1079	0.86	1.50	1210	1.08	-	-	-
		2100	0.50	732	0.42	0.77	875	0.59	1.21	1044	0.83	1.36	1176	1.05	-	-	-
		2200	0.36	697	0.40	0.63	840	0.57	1.06	1009	0.80	1.21	1141	1.02	1.50	1182	0.84
		2300	0.21	662	0.38	0.48	805	0.54	0.92	975	0.78	1.07	1106	0.99	1.36	1147	1.06
		2400	0.07	628	0.36	0.34	771	0.52	0.77	940	0.75	0.92	1072	0.96	1.21	1113	1.03
		1600	1.03	1075	0.61	1.21	1119	0.75	1.51	1316	1.05	-	-	-	-	-	-
		1700	0.91	1037	0.59	1.09	1081	0.73	1.38	1278	1.02	1.49	1350	1.20	-	-	-
		1800	0.78	999	0.57	0.96	1043	0.70	1.26	1240	0.99	1.36	1312	1.17	-	-	-
5	WSC060H3,4,W Horizontal Airflow	1900	0.66	961	0.55	0.84	1005	0.68	1.13	1202	0.96	1.24	1274	1.14	1.43	1347	1.24
		2000	0.53	923	0.53	0.71	967	0.65	1.01	1164	0.93	1.11	1236	1.10	1.31	1309	1.21
		2100	0.41	885	0.51	0.59	929	0.63	0.88	1126	0.90	0.99	1198	1.07	1.18	1271	1.17
		2200	0.28	847	0.48	0.46	891	0.60	0.76	1088	0.87	0.86	1160	1.04	1.06	1233	1.14
		2300	0.16	809	0.46	0.34	853	0.58	0.63	1050	0.84	0.74	1122	1.00	0.93	1195	1.10
		2400	0.03	771	0.44	0.21	816	0.55	0.51	1013	0.81	0.61	1084	0.97	0.81	1157	1.07

- For 036 models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16. For 048 & 060 models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
- Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.
- For electric heat applications minimum airflow is set to 320 cfm/ton, unless specified otherwise, values found in electric heat temp rise table.
- Data includes pressure drop due to wet coil and filters.

Evaporator Fan Performance - High Efficiency

Table 19. Belt drive evaporator fan performance - 3 tons high efficiency - THC036E3,E4 downflow airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Low Static Drive Accessory Kit ^(a)												1-hp Standard Motor & Drive								
600*	—	—	468	0.07	547	0.1	616	0.13	677	0.17	729	0.21	776	0.24	819	0.28	860	0.32	898	0.36
720*	386	0.05	490	0.08	570	0.12	638	0.16	697	0.12	752	0.24	802	0.28	848	0.33	889	0.37	928	0.42
840*	416	0.06	511	0.10	593	0.14	661	0.19	719	0.23	773	0.28	823	0.32	870	0.37	914	0.42	954	0.47
960	449	0.08	534	0.12	614	0.17	683	0.22	742	0.27	795	0.32	845	0.37	891	0.42	935	0.47	977	0.53
1080	483	0.11	561	0.15	635	0.20	704	0.25	765	0.30	818	0.36	868	0.42	913	0.47	957	0.53	998	0.59
1200	518	0.14	592	0.18	658	0.23	725	0.29	786	0.35	842	0.41	891	0.47	936	0.53	979	0.59	1019	0.66
1320	555	0.17	625	0.22	686	0.27	747	0.33	807	0.39	862	0.46	914	0.53	959	0.59	1002	0.66	1043	0.73
1440	592	0.21	658	0.27	717	0.32	772	0.38	828	0.44	882	0.51	933	0.58	980	0.66	1025	0.73	1065	0.80

Continued

External Static Pressure (Inches of Water)										
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Drive										
600*	934	0.41	968	0.45	1001	0.49	1034	0.54	1066	0.59
720*	965	0.46	999	0.51	1032	0.56	1065	0.61	1095	0.66
840*	992	0.53	1029	0.58	1063	0.63	1096	0.68	1125	0.74
960	1016	0.59	1054	0.65	1089	0.70	1124	0.76	1155	0.82
1080	1036	0.65	1075	0.72	1111	0.78	1146	0.84	1180	0.91
1200	1058	0.72	1095	0.78	1131	0.85	1167	0.92	1201	0.99
1320	1082	0.80	1119	0.87	1153	0.94	1188	1.01	1221	1.08
1440	1104	0.88	1141	0.95	1176	1.03	1211	1.10	1243	1.18
1-hp Standard Motor & Field Supplied High Static Drive^(b)										

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
 2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
 3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
 4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
 5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.
- * For 600, 720, and 840 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
 * For electric heat applications, minimum airflow is set to 320/ton, unless specified otherwise, values found in electric heat temperature rise table.
 * Dehumidification (Hot Gas Reheat) or TXV with Froststat and Crankcase Heaters are required on applications below 320 CFM/Ton.

(a) BAYLSDR006AB

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 20. Belt drive evaporator fan performance - 3 tons high efficiency - THC036E3,E4 horizontal airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Low Static Drive Accessory Kit ^(a)												1-hp Standard Motor & Drive								
600*	372	0.04	472	0.06	552	0.09	619	0.12	678	0.15	730	0.18	778	0.22	823	0.25	865	0.29	904	0.32
720*	398	0.05	496	0.08	575	0.11	643	0.15	702	0.18	756	0.22	805	0.26	849	0.29	892	0.33	931	0.37
840*	422	0.06	524	0.10	598	0.13	665	0.17	726	0.22	780	0.26	829	0.30	875	0.34	918	0.39	957	0.43
960	449	0.08	552	0.12	626	0.16	689	0.20	748	0.25	802	0.30	852	0.35	898	0.39	942	0.44	982	0.49
1080	482	0.10	576	0.14	654	0.19	716	0.24	772	0.29	825	0.34	874	0.39	921	0.45	964	0.50	1005	0.55
1200	517	0.13	600	0.17	681	0.23	744	0.28	799	0.33	850	0.39	898	0.44	943	0.50	987	0.56	1028	0.62
1320	554	0.16	627	0.20	705	0.27	773	0.33	828	0.38	877	0.44	923	0.50	967	0.56	1010	0.62	1052	0.69
1440	590	0.20	657	0.24	728	0.30	797	0.37	855	0.44	904	0.50	950	0.56	993	0.63	1034	0.69	1074	0.76

Continued

External Static Pressure (Inches of Water)											
	1.10		1.20		1.30		1.40		1.50		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Drive											
600*	941	0.36	977	0.4	1010	0.44	1042	0.48	1074	0.53	
720*	969	0.41	1005	0.45	1040	0.5	1073	0.54	1105	0.5	
840*	995	0.47	1031	0.52	1066	0.56	1100	0.61	1131	0.66	
960	1020	0.54	1057	0.59	1092	0.64	1126	0.69	1158	0.74	
1080	1045	0.61	1082	0.67	1116	0.72	1151	0.77	1183	0.83	
1200	1067	0.68	1104	0.74	1141	0.80	1174	0.86	1207	0.92	
1320	1091	0.75	1127	0.82	1163	0.88	1198	0.95	1230	1.02	
1440	1112	0.83	1150	0.90	1186	0.97	1221	1.04	1254	1.11	
1-hp Standard Motor & Field Supplied High Static Drive^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
 2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
 3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
 4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
 5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.
- * For 600, 720, and 840 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
 * For electric heat applications, minimum airflow is set to 320/ton, unless specified otherwise, values found in electric heat temperature rise table.
 * Dehumidification (Hot Gas Reheat) or TXV with Froststat and Crankcase Heaters are required on applications below 320 CFM/Ton.

(a) BAYLSDR006AB

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 21. Belt drive evaporator fan performance - 3 tons high efficiency - YHC036E3,E4*L,M low & medium gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive ^(a)											1-hp Standard Motor & Drive										
960	—	—	—	—	605	0.15	671	0.19	730	0.23	784	0.27	835	0.31	881	0.36	924	0.41	965	0.45	
1080	—	—	563	0.14	630	0.17	693	0.22	751	0.26	804	0.31	854	0.35	901	0.40	946	0.46	986	0.50	
1200	—	—	596	0.17	659	0.21	718	0.25	773	0.30	825	0.35	875	0.40	921	0.45	964	0.51	1005	0.56	
1320	555	0.16	629	0.20	689	0.25	745	0.29	797	0.34	848	0.40	897	0.45	941	0.51	984	0.56	1026	0.62	
1440	593	0.20	663	0.25	721	0.29	775	0.34	824	0.39	873	0.45	919	0.51	963	0.57	1006	0.63	1046	0.69	

Continued

External Static Pressure (Inches of Water)												
		1.10		1.20		1.30		1.40		1.50		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Drive (b)												
960	1004	0.50	1039	0.55	1073	0.59	1105	0.64	1137	0.69		
1080	1025	0.56	1063	0.61	1098	0.66	1132	0.72	1163	0.77		
1200	1046	0.62	1082	0.67	1119	0.73	1153	0.79	1187	0.85		
1320	1064	0.68	1103	0.74	1139	0.80	1174	0.86	1207	0.93		
1440	1085	0.75	1123	0.81	1159	0.88	1193	0.94	—	—		
1-hp Standard Motor & Field Supplied High Static Drive (b)												

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 22. Belt drive evaporator fan performance - 3 tons high efficiency - YHC036E3,E4*L,M low & medium gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive ^(a)											1-hp Standard Motor & Drive										
960	—	—	—	—	613	0.15	679	0.20	736	0.24	788	0.28	837	0.32	886	0.37	930	0.42	973	0.47	
1080	—	—	561	0.14	636	0.18	702	0.23	761	0.28	812	0.32	860	0.37	904	0.42	947	0.47	991	0.52	
1200	—	—	589	0.16	661	0.21	726	0.26	784	0.31	836	0.37	884	0.42	929	0.47	970	0.52	1011	0.58	
1320	—	—	619	0.20	687	0.25	750	0.30	807	0.36	859	0.41	909	0.47	953	0.53	995	0.59	1034	0.65	
1440	585	0.19	651	0.24	715	0.29	775	0.35	831	0.40	883	0.47	931	0.53	976	0.59	1019	0.66	1058	0.72	

Continued

External Static Pressure (Inches of Water)												
		1.10		1.20		1.30		1.40		1.50		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Drive												
960	1014	0.53	1051	0.58	1087	0.63	1121	0.68	1155	0.74		
1080	1031	0.58	1071	0.64	1108	0.69	1142	0.75	1177	0.81		
1200	1049	0.63	1087	0.69	1124	0.75	1161	0.82	1195	0.88		
1320	1071	0.70	1107	0.76	1143	0.82	1178	0.89	1213	0.96		
1440	1095	0.78	1130	0.84	1166	0.91	1199	0.97	—	—		
1-hp Standard Motor & Field Supplied High Static Drive ^(b)												

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = $2.7672 \times \text{Fan bhp} + 0.4705$.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 23. Belt drive evaporator fan performance - 3 tons high efficiency - YHC036E3,E4*H high gas heat downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive ^(a)											1-hp Standard Motor & Drive										
960	—	—	—	—	609	0.15	671	0.19	730	0.24	785	0.28	835	0.33	881	0.37	924	0.42	966	0.47	
1080	—	—	572	0.14	638	0.18	697	0.23	752	0.27	805	0.32	855	0.37	900	0.42	945	0.47	986	0.53	
1200	—	—	606	0.18	668	0.22	725	0.26	778	0.31	827	0.36	876	0.42	922	0.47	964	0.52	1007	0.58	
1320	573	0.17	641	0.22	700	0.26	754	0.31	805	0.36	853	0.41	898	0.47	942	0.53	985	0.59	1026	0.65	
1440	613	0.21	677	0.27	733	0.31	786	0.36	835	0.42	881	0.47	925	0.53	966	0.59	1007	0.65	1047	0.71	

Continued

External Static Pressure (Inches of Water)										
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Drive										
960	1004	0.52	1041	0.58	1076	0.63	1109	0.68	1142	0.73
1080	1026	0.58	1063	0.64	1098	0.69	1133	0.75	1165	0.81
1200	1046	0.64	1083	0.70	1120	0.76	1154	0.82	1187	0.88
1320	1065	0.71	1103	0.77	1139	0.83	1175	0.90	1207	0.96
1440	1086	0.78	1123	0.84	1160	0.91	1194	0.98	1227	1.05
1-hp Standard Motor & Field Supplied High Static Drive^(b)										

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 24. Belt drive evaporator fan performance - 3 tons high efficiency - YHC036E3,E4*H high gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive ^(a)											1-hp Standard Motor & Drive										
960	—	—	—	—	621	0.15	685	0.20	745	0.24	799	0.29	849	0.33	894	0.38	936	0.42	975	0.47	
1080	—	—	580	0.14	649	0.19	711	0.23	768	0.28	821	0.32	871	0.38	917	0.43	960	0.48	1000	0.53	
1200	—	—	613	0.18	679	0.22	738	0.27	793	0.32	845	0.37	892	0.42	939	0.48	982	0.53	1024	0.59	
1320	574	0.17	647	0.22	710	0.26	767	0.31	820	0.37	870	0.42	917	0.48	962	0.53	1004	0.59	1046	0.66	
1440	612	0.21	682	0.26	742	0.31	797	0.37	849	0.42	897	0.48	943	0.54	986	0.60	1028	0.66	1068	0.72	

Continued

External Static Pressure (Inches of Water)											
		1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm
1-hp Standard Motor & Drive											
960	1012	0.52	1048	0.57	1082	0.62	1116	0.67	1148	0.72	
1080	1039	0.59	1075	0.64	1109	0.69	1142	0.74	1173	0.80	
1200	1063	0.65	1100	0.71	1134	0.77	1168	0.83	1199	0.88	
1320	1085	0.72	1122	0.78	1159	0.85	1193	0.91	1226	0.98	
1440	1107	0.79	1145	0.86	1181	0.93	1216	1.00	1248	1.07	
1-hp Standard Motor & Field Supplied High Static Drive ^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 25. Belt drive evaporator fan performance - 4 tons high efficiency - THC048E3,4/THC048F3,4 downflow airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Low Static Drive Accessory Kit^(a)												1-hp Standard Motor & Drive								
800*	—	—	444	0.06	526	0.09	598	0.13	663	0.16	720	0.20	772	0.24	820	0.28	863	0.32	905	0.36
960*	—	—	462	0.08	542	0.12	610	0.15	672	0.19	731	0.23	785	0.27	835	0.32	881	0.36	923	0.41
1120*	399	0.07	485	0.11	559	0.14	626	0.18	687	0.22	743	0.26	795	0.31	846	0.36	893	0.41	937	0.46
1280	429	0.10	510	0.14	581	0.17	644	0.21	703	0.26	757	0.30	809	0.35	857	0.40	903	0.45	947	0.51
1440	459	0.12	537	0.17	604	0.21	665	0.26	722	0.30	774	0.35	823	0.40	871	0.45	916	0.51	959	0.56
1600	492	0.16	567	0.21	630	0.26	689	0.31	742	0.36	793	0.41	842	0.46	887	0.51	932	0.57	974	0.63
1760	526	0.20	597	0.26	658	0.31	713	0.36	765	0.42	814	0.47	860	0.53	905	0.58	947	0.64	989	0.70
1920	561	0.25	627	0.31	687	0.37	739	0.43	790	0.49	838	0.55	882	0.60	924	0.66	966	0.72	1006	0.79

Continued

External Static Pressure (Inches of Water)											
	1.10		1.20		1.30		1.40		1.50		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Drive											
800*	942	0.40	980	0.44	1015	0.48	1047	0.53	1079	0.569	
960*	964	0.46	1002	0.50	1038	0.55	1072	0.60	1105	0.65	
1120*	979	0.51	1019	0.56	1055	0.62	1091	0.67	1125	0.725	
1280	990	0.56	1031	0.62	1069	0.68	1105	0.74	1140	0.80	
1440	999	0.62	1040	0.68	1079	0.75	1115	0.81	1152	0.87	
1600	1014	0.69	1051	0.75	1089	0.82	1125	0.88	1162	0.95	
1760	1028	0.77	1066	0.83	1104	0.90	1139	0.96	1175	1.04	
1920	1044	0.85	1083	0.92	1118	0.99	1155	1.06	1188	1.13	
1-hp Standard Motor & Field Supplied High Static Drive^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
 2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
 3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
 4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
 5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.
- * For 800, 960, and 1120 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
 * For electric heat applications, minimum airflow is set to 320/ton, unless specified otherwise, values found in electric heat temperature rise table.
 * Dehumidification (Hot Gas Reheat) or TXV with Froststat and Crankcase Heaters are required on applications below 320 CFM/Ton.

(a) BAYLSDR006AB

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 26. Belt drive evaporator fan performance - 4 tons high efficiency - THC048E3,4/THC048F3,4 horizontal airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Low Static Drive Accessory Kit ^(a)											1-hp Standard Motor & Drive										
800*	368	0.05	481	0.08	562	0.12	623	0.16	677	0.20	730	0.24	780	0.28	825	0.32	870	0.37	911	0.41	
960*	392	0.06	501	0.10	587	0.15	655	0.20	711	0.24	759	0.29	804	0.33	848	0.38	891.1	0.43	932	0.48	
1120*	420	0.08	519	0.13	607	0.18	679	0.23	740	0.29	792	0.34	837	0.39	879	0.45	918	0.50	955	0.55	
1280	449	0.11	541	0.16	625	0.21	700	0.27	764	0.33	819	0.40	868	0.46	912	0.52	951	0.58	989	0.64	
1440	482	0.14	567	0.19	644	0.25	718	0.32	783	0.38	841	0.45	892	0.52	939	0.59	982	0.66	1022	0.73	
1600	518	0.18	596	0.24	668	0.30	736	0.36	801	0.44	861	0.51	915	0.59	963	0.67	1007	0.74	1048	0.82	
1760	555	0.23	625	0.29	694	0.35	757	0.42	820	0.50	879	0.58	933	0.66	984	0.74	1030	0.83	1072	0.91	
1920	593	0.28	657	0.35	723	0.42	783	0.49	840	0.57	897	0.65	951	0.74	1001	0.83	1049	0.92	1093	1.01	
											1-hp Standard Motor & Field Supplied High Static Drive ^(b)										

Continued

External Static Pressure (Inches of Water)											
		1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Drive											
800*	950	0.46	986	0.51	1024	0.56	1057	0.602	1090	0.65	
960*	972	0.53	1009	0.58	1045	0.64	1080	0.692	1111	0.74	
1120*	994	0.61	1031	0.67	1067	0.73	1101	0.786	1134	0.85	
1280	1023	0.70	1057	0.76	1090	0.82	1123	0.89	1157	0.95	
1440	1057	0.80	1091	0.86	1123	0.93	1155	1.00	1184	1.07	
1600	1087	0.90	1123	0.97	1156	1.05	1187	1.12	1217	1.20	
1760	1113	1.00	1150	1.08	1184	1.17	1219	1.25	1250	1.34	
1920	1135	1.10	1174	1.19	1210	1.29	1244	1.38	1278	1.47	
1-hp Standard Motor & Field Supplied High Static Drive											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
 2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
 3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
 4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
 5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.
- * For 800, 960, and 1120 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
 * For electric heat applications, minimum airflow is set to 320/ton, unless specified otherwise, values found in electric heat temperature rise table.
 * Dehumidification (Hot Gas Reheat) or TXV with Froststat and Crankcase Heaters are required on applications below 320 CFM/Ton.

(a) BAYLSDR006AB

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 27. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,4/F3,4*L,M low & medium gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive ^(a)											1-hp Standard Motor & Drive										
1280	—	—	—	—	589	0.18	652	0.23	710	0.27	763	0.32	812	0.37	858	0.42	905	0.47	949	0.53	
1440	—	—	546	0.18	614	0.22	675	0.27	731	0.32	782	0.37	830	0.42	876	0.48	919	0.53	961	0.59	
1600	—	—	575	0.22	641	0.27	699	0.32	752	0.37	803	0.43	851	0.49	895	0.54	938	0.60	978	0.66	
1760	538	0.21	606	0.27	668	0.32	725	0.38	776	0.44	826	0.50	872	0.56	916	0.62	958	0.68	997	0.75	
1920	574	0.27	638	0.32	696	0.38	752	0.45	802	0.51	850	0.57	895	0.63	938	0.70	978	0.77	1018	0.84	

Continued

External Static Pressure (Inches of Water)											
		1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Drive											
1280	993	0.58	1032	0.64	1070	0.70	1107	0.76	1143	0.82	
1440	1003	0.65	1043	0.71	1082	0.77	1118	0.84	1154	0.90	
1600	1017	0.72	1054	0.78	1092	0.85	1129	0.92	1165	0.98	
1760	1036	0.81	1073	0.88	1108	0.94	1142	1.01	1177	1.08	
1920	1056	0.91	1092	0.98	1127	1.04	1160	1.11	1193	1.19	
1-hp Standard Motor & Field Supplied High Static Drive ^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 28. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,4/F3,4*L,M low & medium gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive(a)										1-hp Standard Motor & Drive											
1280	—	—	554	0.16	622	0.21	685	0.26	741	0.31	794	0.36	842	0.42	888	0.47	931	0.53	973	0.59	
1440	—	—	590	0.21	652	0.26	712	0.31	767	0.36	818	0.42	866	0.48	911	0.54	953	0.60	995	0.67	
1600	561	0.21	628	0.26	686	0.32	741	0.37	794	0.43	844	0.49	890	0.55	935	0.62	976	0.68	1017	0.75	
1760	602	0.27	667	0.33	722	0.38	773	0.44	822	0.50	871	0.57	917	0.63	960	0.70	1001	0.77	1040	0.84	
1920	644	0.33	706	0.40	760	0.46	809	0.52	855	0.59	900	0.66	944	0.73	987	0.80	1027	0.87	1066	0.95(b)	

Continued

External Static Pressure (Inches of Water)											
1.10			1.20		1.30		1.40		1.50		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm
1-hp Standard Motor & Drive											
1280	1012	0.65	1052	0.72	1090	0.78	1127	0.84	1162	0.91	
1440	1032	0.73	1070	0.80	1107	0.87	1142	0.94	1175	1.01	
1600	1055	0.82	1093	0.89	1128	0.96	1162	1.03	1195	1.11	
1760	1078	0.91	1114	0.99	1150	1.06	1183	1.14	1217	1.22	
1920	1103	1.02	1139	1.10	1174	1.18	1207	1.26	1239	1.34	
1-hp Standard Motor & Field Supplied High Static Drive ^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 29. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,4/F3,4*H high gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive ^(a)											1-hp Standard Motor & Drive										
1280	—	—	528	0.15	600	0.19	661	0.23	717	0.28	771	0.33	821	0.38	870	0.43	915	0.48	959	0.54	
1440	—	—	556	0.18	626	0.23	687	0.28	740	0.33	790	0.38	839	0.43	886	0.49	930	0.54	974	0.61	
1600	—	—	586	0.22	651	0.28	712	0.34	766	0.39	814	0.44	860	0.50	904	0.55	947	0.61	990	0.68	
1760	554	0.22	619	0.28	680	0.33	738	0.39	792	0.46	841	0.52	884	0.58	926	0.63	967	0.69	1007	0.76	
1920	592	0.28	653	0.34	710	0.39	765	0.46	817	0.53	866	0.60	912	0.67	953	0.73	992	0.79	1028	0.85	

Continued

External Static Pressure (Inches of Water)											
		1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Drive											
1280	1003	0.60	1045	0.66	1083	0.71	1121	0.77	1156	0.83	
1440	1013	0.66	1054	0.73	1094	0.79	1132	0.86	1168	0.92	
1600	1029	0.74	1069	0.81	1106	0.87	1142	0.94	1177	1.01	
1760	1046	0.82	1084	0.89	1121	0.96	1156	1.03	1191	1.11	
1920	1066	0.92	1103	0.99	1139	1.06	1174	1.14	1206	1.21	
1-hp Standard Motor & Field Supplied High Static Drive ^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = $2.7672 \times \text{Fan bhp} + 0.4705$.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 30. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,4/F3,4*H high gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive(a)										1-hp Standard Motor & Drive											
1280	—	—	561	0.16	626	0.20	684	0.25	739	0.29	792	0.34	842	0.39	890	0.45	935	0.50	977	0.56	
1440	—	—	595	0.20	659	0.25	715	0.30	766	0.35	816	0.40	864	0.45	909	0.51	953	0.57	995	0.63	
1600	561	0.20	628	0.25	694	0.31	748	0.36	798	0.41	843	0.47	888	0.52	932	0.58	974	0.64	1015	0.71	
1760	603	0.26	665	0.31	727	0.37	782	0.43	830	0.49	875	0.54	917	0.60	958	0.67	998	0.73	1038	0.80	
1920	646	0.32	705	0.38	761	0.44	816	0.52	864	0.58	908	0.63	949	0.70	988	0.76	1026	0.83	1063	0.90(b)	

Continued

External Static Pressure (Inches of Water)												
		1.10		1.20		1.30		1.40		1.50		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Drive												
1280	1018	0.62	1058	0.68	1095	0.74	1131	0.81	1166	0.87		
1440	1036	0.69	1075	0.76	1113	0.82	1148	0.89	1183	0.96		
1600	1055	0.77	1093	0.84	1130	0.91	1166	0.98	1201	1.05		
1760	1075	0.86	1113	0.93	1149	1.00	1184	1.08	1219	1.15		
1920	1100	0.97	1135	1.04	1171	1.11	1204	1.19	1237	1.26		
1-hp Standard Motor & Field Supplied High Static Drive ^(b)												

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 31. Belt drive evaporator fan performance - 5 tons high efficiency - THC060E3,4/F3,4 downflow airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Low Static Drive Accessory Kit ^(a)															1-hp Standard Motor & Drive					
1000*	379	0.06	469	0.09	546	0.12	614	0.16	676	0.20	732	0.24	784	0.28	833	0.33	879	0.37	922	0.42
1200*	416	0.09	498	0.12	571	0.158	635	0.20	694	0.24	749	0.28	800	0.33	849	0.38	894	0.43	938	0.48
1400*	456	0.12	531	0.16	599	0.20	662	0.25	717	0.29	769	0.34	820	0.39	867	0.44	911	0.50	955	0.56
1600	499	0.16	570	0.21	631	0.25	691	0.31	745	0.36	794	0.41	842	0.46	887	0.52	930	0.57	972	0.63
1800	544	0.22	609	0.27	667	0.32	721	0.37	773	0.43	823	0.49	868	0.55	911	0.61	953	0.67	992	0.73
2000	589	0.29	650	0.35	706	0.40	755	0.46	804	0.52	851	0.58	897	0.65	938	0.71	978	0.77	1017	0.84
2200	636	0.37	692	0.43	745	0.50	793	0.56	838	0.62	882	0.68	925	0.75	967	0.83	1007	0.90	1044	0.97
2400	683	0.47	736	0.54	785	0.61	833	0.68	875	0.74	916	0.81	956	0.88	996	0.95	1036	1.03	1073	1.11

Continued

External Static Pressure (Inches of Water)										
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Drive										
1000*	962	0.46	1002	0.51	1040	0.56	1076	0.61	1111	0.66
1200*	979	0.54	1018	0.50	1055	0.64	1091	0.70	1126	0.75
1400*	996	0.61	1035	0.67	1072	0.73	1107	0.79	1143	0.85
1600	1013	0.70	1051	0.76	1088	0.82	1124	0.89	1160	0.96
1800	1031	0.79	1070	0.86	1106	0.93	1142	1.00	1176	1.07
2000	1054	0.91	1091	0.98	1126	1.04	1161	1.12	1195	1.19
2200	1080	1.04	1115	1.11	1148	1.18	1183	1.26	1215	1.33
2400	1108	1.19	1142	1.27	1176	1.34	1207	1.42	1238	1.49
1-hp Standard Motor & Field Supplied High Static Drive ^(b)										

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
 2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
 3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
 4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
 5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.
- * For 1000, 1200, and 1400 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
 * For electric heat applications, minimum airflow is set to 320/ton, unless specified otherwise, values found in electric heat temperature rise table.
 * Dehumidification (Hot Gas Reheat) or TXV with Froststat and Crankcase Heaters are required on applications below 320 CFM/Ton.

(a) BAYLSDR006AB

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 32. Belt drive evaporator fan performance - 5 tons high efficiency - THC060E3,4/F3,4 horizontal airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Low Static Drive Accessory Kit ^(a)												1-hp Standard Motor & Drive								
1000*	412	0.07	517	0.10	601	0.15	664	0.19	716	0.23	764	0.27	810	0.31	853	0.35	897	0.40	939	0.44
1200*	456	0.10	542	0.14	631	0.19	702	0.24	758	0.29	808	0.33	851	0.38	892	0.43	932	0.48	970	0.53
1400*	502	0.14	580	0.18	654	0.23	730	0.29	795	0.35	848	0.41	893	0.46	936	0.52	974	0.58	1010	0.63
1600	550	0.19	622	0.24	688	0.29	753	0.35	820	0.41	881	0.49	930	0.55	975	0.62	1015	0.68	1052	0.75
1800	598	0.25	668	0.31	728	0.37	785	0.42	843	0.49	903	0.56	960	0.64	1010	0.72	1053	0.80	1092	0.87
2000	648	0.33	714	0.39	771	0.46	824	0.52	875	0.58	927	0.66	982	0.74	1034	0.83	1082	0.91	1126	1.00
2200	699	0.42	762	0.50	816	0.57	866	0.63	914	0.70	960	0.77	1006	0.85	1056	0.94	1106	1.03	1152	1.13
2400	750	0.54	810	0.61	863	0.69	911	0.77	956	0.84	999	0.92	1042	1.00	1084	1.08	1130	1.17	1176	1.27
												1-hp Standard Motor & Field Supplied High Static Drive ^(b)								

Continued

External Static Pressure (Inches of Water)										
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & Drive										
1000*	977	0.49	1014	0.53	1049	0.58	1084	0.63	1118	0.68
1200*	1006	0.58	1042	0.63	1078	0.69	1112	0.74	1145	0.80
1400*	1045	0.69	1078	0.74	1111	0.8	1144	0.86	1174	0.92
1600	1087	0.81	1121	0.88	1152	0.94	1182	1.00	1213	1.07
1800	1129	0.95	1163	1.02	1195	1.09	1226	1.16	1255	1.23
2000	1165	1.08	1201	1.17	1236	1.25	1268	1.33	1298	1.41
2200	1196	1.23	1237	1.33	1271	1.42	1305	1.51	1338	1.60
2400	1219	1.37	1261	1.48	1301	1.58	1339	1.69	1373	1.79
1-hp Standard Motor & Field Supplied High Static Drive ^(b)										

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
 2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
 3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
 4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
 5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.
- * For 1000, 1200, and 1400 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
 * For electric heat applications, minimum airflow is set to 320/ton, unless specified otherwise, values found in electric heat temperature rise table.
 * Dehumidification (Hot Gas Reheat) or TXV with Froststat and Crankcase Heaters are required on applications below 320 CFM/Ton.

(a) BAYLSDR006AB

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 33. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,4/F3,4*L,M low & medium gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive ^(a)											1-hp Standard Motor & Drive										
1600	—	—	583	0.22	648	0.27	705	0.32	755	0.37	804	0.42	852	0.47	897	0.53	941	0.59	982	0.65	
1800	—	—	623	0.28	683	0.34	740	0.40	790	0.45	835	0.50	879	0.56	922	0.62	964	0.68	1004	0.74	
2000	605	0.30	665	0.36	721	0.42	774	0.48	824	0.55	870	0.61	911	0.66	951	0.73	991	0.79	1028	0.86	
2200	653	0.39	709	0.45	762	0.51	812	0.58	859	0.65	905	0.72	948	0.79	986	0.86	1022	0.92	1057	0.99	
2400	701	0.49	756	0.56	803	0.63	851	0.70	896	0.77	939	0.85	982	0.93	1022	1.00	1057	1.07	1092	1.14	

Continued

External Static Pressure (Inches of Water)											
		1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Drive											
1600	1024	0.71	1061	0.77	1099	0.83	1136	0.90	1170	0.96	
1800	1044	0.81	1081	0.87	1118	0.94	1155	1.01	1188	1.08	
2000	1067	0.93	1103	1.00	1139	1.07	1175	1.14	1209	1.22	
2200	1094	1.06	1129	1.13	1163	1.21	1197	1.29	1229	1.36	
2400	1124	1.21	1157	1.29	1189	1.37	1222	1.45	—	—	
1-hp Standard Motor & Field Supplied High Static Drive ^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 34. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,4/F3,4*L,M low & medium gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive ^(a)											1-hp Standard Motor & Drive										
1600	566	0.21	633	0.26	694	0.31	747	0.36	798	0.41	848	0.47	895	0.52	939	0.58	981	0.65	1021	0.71	
1800	621	0.28	681	0.33	739	0.39	790	0.45	837	0.51	884	0.57	929	0.63	971	0.69	1013	0.76	1052	0.82	
2000	676	0.37	731	0.43	785	0.49	836	0.56	880	0.62	923	0.69	966	0.75	1006	0.82	1046	0.89	1084	0.96	
2200	732	0.48	784	0.54	832	0.61	881	0.68	927	0.75	967	0.83	1005	0.90	1044	0.97	1082	1.04	1118	1.12	
2400	789	0.61	838	0.68	882	0.75	927	0.82	972	0.90	1012	0.98	1049	1.06	1085	1.14	1121	1.22	1155	1.30 ^(b)	

Continued

External Static Pressure (Inches of Water)											
		1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm
1-hp Standard Motor & Drive											
1600	1060	0.78	1097	0.84	1135	0.91	1169	0.98	1203	1.04	
1800	1090	0.89	1126	0.96	1161	1.04	1195	1.11	1229	1.19	
2000	1121	1.03	1156	1.10	1192	1.18	1224	1.26	1257	1.34	
2200	1155	1.19	1189	1.27	1223	1.34	1256	1.42	—	—	
2400	1190	1.38	1223	1.46	—	—	—	—	—	—	
1-hp Standard Motor & Field Supplied High Static Drive ^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 35. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,4/F3,4*H high gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive ^(a)											1-hp Standard Motor & Drive										
1600	—	—	595	0.22	658	0.27	716	0.32	768	0.37	817	0.42	864	0.47	910	0.53	954	0.59	996	0.65	
1800	—	—	637	0.29	697	0.34	752	0.40	802	0.45	849	0.51	893	0.56	936	0.62	979	0.68	1019	0.75	
2000	621	0.31	680	0.36	737	0.42	790	0.49	838	0.55	884	0.61	927	0.67	967	0.73	1007	0.80	1046	0.86	
2200	671	0.40	726	0.46	779	0.52	829	0.59	876	0.66	919	0.72	962	0.79	1002	0.86	1039	0.93	1076	1.00	
2400	721	0.50	773	0.57	822	0.64	870	0.71	916	0.78	957	0.86	998	0.93	1036	1.00	1074	1.08	1109	1.15	

Continued

External Static Pressure (Inches of Water)											
		1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm
1-hp Standard Motor & Drive											
1600	1037	0.72	1076	0.78	1114	0.85	1151	0.91	1184	0.98	
1800	1058	0.82	1096	0.88	1133	0.95	1169	1.02	1204	1.10	
2000	1083	0.93	1120	1.00	1155	1.07	1189	1.15	1224	1.23	
2200	1111	1.07	1146	1.14	1181	1.22	1214	1.29	1248	1.37	
2400	1144	1.23	1177	1.30	1210	1.38	1241	1.46	1274	1.54	
1-hp Standard Motor & Field Supplied High Static Drive ^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 36. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,4/F3,4*H high gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Field Supplied Low Static Drive(a)											1-hp Standard Motor & Drive										
1600	570	0.21	639	0.26	703	0.32	760	0.37	809	0.41	854	0.46	894	0.52	936	0.58	977	0.64	1019	0.70	
1800	620	0.28	689	0.34	746	0.40	801	0.46	851	0.52	896	0.57	937	0.62	974	0.68	1011	0.75	1048	0.81	
2000	671	0.36	741	0.44	792	0.50	844	0.57	893	0.64	939	0.71	980	0.76	1019	0.82	1054	0.88	1087	0.95	
2200	723	0.46	791	0.55	843	0.62	889	0.69	936	0.77	981	0.85	1022	0.92	1061	0.99	1097	1.05	1131	1.11	
2400	776	0.58	841	0.68	895	0.76	937	0.84	981	0.91	1023	1.00	1064	1.09	1103	1.17	1140	1.25	1173	1.31(b)	

Continued

External Static Pressure (Inches of Water)											
		1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
1-hp Standard Motor & Drive											
1600	1057	0.76	1096	0.83	1133	0.90	1167	0.96	1201	1.03	
1800	1086	0.88	1123	0.95	1159	1.02	1192	1.09	1226	1.17	
2000	1119	1.02	1153	1.09	1188	1.17	1221	1.24	1253	1.32	
2200	1162	1.18	1193	1.25	1223	1.33	1253	1.41	1284	1.49	
2400	1206	1.38	1236	1.44	1266	1.52	1294	1.61	1320	1.69	
1-hp Standard Motor & Field Supplied High Static Drive ^(b)											

Notes:

1. For standard evaporator fan speed (rpm), reference the standard motor and sheave/fan speed applicable table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.

(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance - High Efficiency

Table 37. Direct drive evaporator fan performance - 3 tons high efficiency - W/DHC036H3,H4,HW downflow airflow

External Static Pressure (Inches of Water)																						
		.10"		.20"		.30"		.40"		.50"		.60"		.70"		.80"		.90"		1.00"		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp		
Standard Static Motor																				927	0.44	
960	539	0.11	585	0.15	632	0.18	679	0.22	725	0.26	772	0.29	819	0.33	865	0.37	912	0.41				
1080	566	0.16	613	0.20	659	0.24	706	0.27	753	0.31	800	0.35	846	0.38	893	0.42	940	0.46	948			0.49
1200	594	0.21	640	0.25	687	0.29	734	0.32	780	0.36	827	0.40	874	0.43	920	0.47	930	0.51	968			0.54
1320	621	0.26	668	0.30	714	0.34	761	0.37	808	0.41	854	0.45	901	0.49	948	0.52	950	0.56	988			0.60
1440	648	0.31	695	0.35	742	0.39	789	0.43	835	0.46	882	0.50	929	0.54	932	0.57	971	0.61	1009	0.65		
High Static Motor Option(a)																						
External Static Pressure (Inches of Water)																						
		1.10"		1.20"		1.30"		1.40"		1.50"												
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp										
High Static Motor Option(a)																						
960	965	0.48	1004	0.52	1042	0.55	1080	0.59	1118	0.63												
1080	986	0.53	1024	0.57	1062	0.60	1100	0.64	1139	0.67												
1200	1006	0.58	1044	0.62	1083	0.66	1121	0.70	1159	0.74												
1320	1027	0.63	1065	0.67	1103	0.70	1141	0.73	1179	0.76												
1440	1047	0.68	1085	0.70	1123	0.74	1162	0.77	1200	0.80												

Notes:

1. For constant cfm direct drive fan, refer to the voltage vs. cfm table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils.
3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
4. Direct drive fan motor heat (MBh) = $2.9245 \times \text{fan bhp} + 0.055$
5. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) High Static Motor Option not available on DHC models.

Evaporator Fan Performance - High Efficiency

Table 38. Direct drive evaporator fan performance - 3 tons high efficiency - W/DHC036H3,H4,HW horizontal airflow

External Static Pressure (Inches of Water)																					
		.10"		.20"		.30"		.40"		.50"		.60"		.70"		.80"		.90"		1.00"	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
Standard Static Motor																					
960	-	-	515	0.15	565	0.18	614	0.22	663	0.26	713	0.29	762	0.33	812	0.37	861	0.41			
1080	-	-	541	0.20	590	0.24	640	0.27	689	0.31	738	0.35	788	0.38	837	0.42	887	0.46			
1200	517	0.21	566	0.25	616	0.29	665	0.32	715	0.36	764	0.40	813	0.43	863	0.47	921	0.51			
1320	543	0.26	592	0.30	641	0.34	691	0.37	740	0.41	790	0.45	839	0.49	888	0.52	940	0.56			
1440	568	0.31	618	0.35	667	0.39	716	0.43	766	0.46	815	0.50	865	0.54	922	0.57	960	0.61	997	0.65	
High Static Motor Option(a)																					
External Static Pressure (Inches of Water)																					
		1.10"		1.20"		1.30"		1.40"		1.50"											
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp											
High Static Motor Option(a)																					
960	958	0.48	995	0.52	1033	0.55	1070	0.59	1108	0.63											
1080	977	0.53	1015	0.57	1052	0.60	1089	0.64	1127	0.67											
1200	996	0.58	1034	0.62	1071	0.66	1108	0.70	1146	0.74											
1320	1015	0.63	1053	0.67	1090	0.70	1127	0.73	1165	0.76											
1440	1034	0.68	1072	0.70	1109	0.74	1147	0.77	1184	0.80											

Notes:

1. For constant cfm direct drive fan, refer to the voltage vs. cfm table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils.
3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
4. Direct drive fan motor heat (MBh) = 2.9245 x fan bhp + 0.055
5. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) High Static Motor Option not available on DHC models.

Evaporator Fan Performance - High Efficiency

Table 39. Direct drive evaporator fan performance - 4 tons high efficiency - W/DHC048H3,H4,HW downflow airflow

External Static Pressure (Inches of Water)																					
.10"			.20"		.30"		.40"		.50"		.60"		.70"		.80"		.90"		1.00"		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
Standard Static Motor																					
1280	541	0.07	585	0.12	628	0.18	672	0.23	715	0.28	759	0.33	802	0.39	846	0.44	889	0.49	905	0.55	
1440	564	0.15	608	0.2	651	0.25	695	0.3	738	0.36	782	0.41	825	0.46	869	0.51	912	0.57	925	0.62	
1600	587	0.22	631	0.27	674	0.33	718	0.38	761	0.43	805	0.48	848	0.54	892	0.59	901	0.64	945	0.70	
1760	610	0.3	654	0.35	697	0.4	741	0.45	784	0.51	828	0.56	871	0.61	915	0.66	921	0.72	965	0.77	
1920	634	0.37	677	0.42	721	0.48	764	0.53	808	0.58	851	0.63	895	0.69	898	0.74	941	0.79	985	0.85	
High Static Motor Option(a)																					
External Static Pressure (Inches of Water)																					
1.10"			1.20"		1.30"		1.40"		1.50"												
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp											
High Static Motor Option(a)																					
1280	949	0.60	992	0.65	1036	0.70	1079	0.76	1123	0.81											
1440	969	0.67	1012	0.73	1056	0.78	1099	0.83	1143	0.88											
1600	989	0.75	1032	0.80	1076	0.85	1119	0.91	1163	0.96											
1760	1009	0.82	1052	0.88	1096	0.93	1139	0.98	1183	1.03											
1920	1029	0.90	1072	0.95	1116	1.00	1159	1.06	1203	1.11											

Notes:

1. For constant cfm direct drive fan, refer to the voltage vs. cfm table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils.
3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
4. Direct drive fan motor heat (MBh) = $2.9245 \times \text{fan bhp} + 0.055$
5. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) High Static Motor Option not available on DHC models.

Evaporator Fan Performance - High Efficiency

Table 40. Direct drive evaporator fan performance - 4 tons high efficiency - W/DHC048H3,H4,HW horizontal airflow

External Static Pressure (Inches of Water)																							
.10"			.20"		.30"		.40"		.50"		.60"		.70"		.80"		.90"		1.00"				
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp			
Standard Static Motor																			High Static Motor Option(a)				
1280	591	0.07	632	0.12	674	0.18	715	0.23	756	0.28	798	0.33	839	0.39	880	0.44	922	0.49				968	0.55
1440	621	0.15	663	0.2	704	0.25	745	0.3	787	0.36	828	0.41	869	0.46	911	0.51	952	0.57				1005	0.62
1600	652	0.22	693	0.27	734	0.33	776	0.38	817	0.43	858	0.48	900	0.54	941	0.59	1008	0.64				1041	0.70
1760	682	0.3	723	0.35	765	0.4	806	0.45	847	0.51	889	0.56	930	0.61	971	0.66	1045	0.72				1078	0.77
1920	712	0.37	754	0.42	795	0.48	836	0.53	878	0.58	919	0.63	960	0.69	1048	0.74	1082	0.79	1115	0.85			
External Static Pressure (Inches of Water)																							
1.10"			1.20"		1.30"		1.40"		1.50"														
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp													
High Static Motor Option(a)																							
1280	1001	0.60	1034	0.65	1067	0.70	1101	0.76	1134	0.81													
1440	1038	0.67	1071	0.73	1104	0.78	1137	0.83	1170	0.88													
1600	1075	0.75	1108	0.80	1141	0.85	1174	0.91	1207	0.96													
1760	1111	0.82	1144	0.88	1177	0.93	1210	0.98	1244	1.03													
1920	1148	0.90	1181	0.95	1214	1.00	1247	1.06	1280	1.11													

Notes:

1. For constant cfm direct drive fan, refer to the voltage vs. cfm table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils.
3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
4. Direct drive fan motor heat (MBh) = $2.9245 \times \text{fan bhp} + 0.055$
5. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) High Static Motor Option not available on DHC models.

Evaporator Fan Performance - High Efficiency

Table 41. Direct drive evaporator fan performance - 5 tons high efficiency - W/DHC060H3,H4,HW downflow airflow

External Static Pressure (Inches of Water)																					
.10"			.20"		.30"		.40"		.50"		.60"		.70"		.80"		.90"		1.00"		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
Standard Static Motor																					
1600	618	0.13	656	0.18	693	0.23	731	0.28	769	0.33	806	0.38	844	0.43	881	0.48	919	0.53			
1800	651	0.24	689	0.29	727	0.34	764	0.39	802	0.44	839	0.49	877	0.54	915	0.59	957	0.64			
2000	685	0.35	722	0.4	760	0.45	798	0.5	835	0.55	873	0.6	910	0.65	948	0.7	952	0.75			
2200	718	0.46	756	0.51	793	0.56	831	0.61	869	0.66	906	0.71	944	0.76	981	0.81	981	0.86			
2400	752	0.57	789	0.62	827	0.67	864	0.72	902	0.77	940	0.82	977	0.87	971	0.92	1011	0.97	1050	1.02	
High Static Motor Option(a)																					
External Static Pressure (Inches of Water)																					
1.10"			1.20"		1.30"		1.40"		1.50"												
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp											
High Static Motor Option(a)																					
1600	971	0.63	1011	0.68	1050	0.73	1089	0.79	1129	0.84											
1800	1001	0.74	1040	0.79	1080	0.84	1119	0.89	1158	0.92											
2000	1030	0.85	1070	0.90	1109	0.95	1149	0.99	1188	1.02											
2200	1060	0.96	1099	1.01	1139	1.04	1178	1.06	1218	1.09											
2400	1090	1.05	1129	1.07	1168	1.10	1208	1.13	1247	1.16											

Notes:

1. For constant cfm direct drive fan, refer to the voltage vs. cfm table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils.
3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
4. Direct drive fan motor heat (MBh) = $2.9245 \times \text{fan bhp} + 0.055$
5. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) High Static Motor Option not available on DHC models.

Evaporator Fan Performance - High Efficiency

Table 42. Direct drive evaporator fan performance - 5 tons high efficiency - W/DHC060H3,H4,HW horizontal airflow

External Static Pressure (Inches of Water)																					
.10"			.20"		.30"		.40"		.50"		.60"		.70"		.80"		.90"		1.00"		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
Standard Static Motor																			1047 0.58 1084 0.69 1120 0.80 1156 0.91 1193 1.02		
1600	680	0.14	717	0.19	753	0.25	790	0.31	827	0.36	864	0.42	901	0.47	937	0.48	974	0.53			
1800	716	0.27	753	0.32	789	0.38	826	0.44	863	0.49	900	0.55	937	0.61	973	0.59	1010	0.64			
2000	752	0.4	789	0.46	825	0.51	862	0.57	899	0.63	936	0.68	973	0.74	1009	0.7	1084	0.75			
2200	788	0.53	825	0.59	861	0.65	898	0.7	935	0.76	972	0.82	1009	0.87	1045	0.81	1121	0.86			
2400	824	0.67	861	0.72	897	0.78	934	0.84	971	0.89	1008	0.95	1045	1.01	1121 0.92		1157	0.97	High Static Motor Option(a)		
External Static Pressure (Inches of Water)																					
1.10"			1.20"		1.30"		1.40"		1.50"												
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp											
High Static Motor Option(a)																					
1600	1083	0.63	1119	0.68	1155	0.73	1191	0.79	1227	0.84											
1800	1120	0.74	1155	0.79	1191	0.84	1227	0.89	1263	0.92											
2000	1156	0.85	1192	0.90	1228	0.95	1264	0.99	1300	1.02											
2200	1192	0.96	1228	1.01	1264	1.04	1300	1.06	1336	1.09											
2400	1229	1.05	1265	1.07	1301	1.10	1336	1.13	1372	1.16											

Notes:

1. For constant cfm direct drive fan, refer to the voltage vs. cfm table in the fan performance section.
2. Data includes pressure drop due to standard filters and wet coils.
3. To determine static pressure drop due to other options/accessories, refer to the applicable table in the fan performance section.
4. Direct drive fan motor heat (MBh) = 2.9245 x fan bhp + 0.055
5. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

(a) High Static Motor Option not available on DHC models.

Fan Performance

Table 43. Standard motor & sheave/fan speed (rpm)

Tons	Unit Model Number	Fan Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
3	T/YHC036E	AK51x3/4"	N/A	765	835	905	975	1045	1115
4	T/YHC048E	AK54x3/4"	N/A	729	794	860	926	911	1057
4	T/YHC048F	AK54x3/4"	N/A	729	794	860	926	911	1057
5	T/YHC060E	AK49x3/4"	N/A	801	871	942	1012	1083	1154
5	T/YHC060F	AK49x3/4"	N/A	801	871	942	1012	1083	1154

Note: Factory set at 3 turns open.

Table 44. Standard motor & low static drive accessory sheave/fan speed (rpm)

Tons	Unit Model Number	Fan Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
3	YHC036E	AK71x3/4"	N/A	556	607	657	707	758	808
3	THC036E	AK99x3/4"	N/A	385	424	462	501	539	578
4	YHC048E,F	AK71x3/4"	N/A	556	607	657	707	758	808
4	THC048E,F	AK99x3/4"	N/A	385	424	462	501	539	578
5	YHC060E,F	AK71x3/4"	N/A	556	607	657	707	758	808
5	THC060E,F	AK99x3/4"	N/A	385	424	462	501	539	578

Note: Factory set at 3 turns open.

Table 45. Standard motor & high static drive accessory sheave/fan speed (rpm)

Tons	Unit Model Number	Fan Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
3	T/YHC036E	AK41x3/4"	N/A	N/A	967	1040	1113	1187	N/A
4	T/YHC048E,F	AK41x3/4"	N/A	N/A	966	1048	1132	1215	N/A
5	T/YHC060E,F	AK41x3/4"	N/A	N/A	961	1041	1122	1203	N/A

Note: Factory set at 3 turns open.

Heating Performance

Table 46. Electric heater voltage correction factors (applicable to auxiliary heat capacity)

Nominal Voltage	Distribution Voltage	Capacity Multiplier
240	208	0.751
240	230	0.918
240	240	1.000
480	440	0.840
480	460	0.918
480	480	1.000
600	540	0.810
600	575	0.918
600	600	1.000

Table 47. 3 to 5 tons air temperature rise across electric heaters (°F)

		3 Tons ^(a) 1200 cfm		4 Tons 1600 cfm		5 Tons ^(b) 2000 cfm	
kW	Stages	Single Phase THC036E1	Three Phase T*C036E3,E4,EW	Single Phase THC048E/F1	Three Phase T*C048E/F3, E/F4, EW	Single Phase THC060E/F1	Three Phase T*C060E/F3, E/F4, EW
5.00	1	13.8	—	10.5	—	8.5	—
6.00	1	—	18.5	—	10.5	—	11.4
10.00	2	26.8	—	20.3	—	16.3	—
12.00	2	—	36.2	—	22.3	—	21.5
13.80	2	36.9	—	27.8	—	22.3	—
17.40	2	—	48.2	—	33.0	—	30.0
17.60	2	—	—	35.5	—	28.3	—
23.0	2	—	—	—	—	—	38.8

Notes:

- For minimum design airflow, see airflow performance table for each unit.
 - To calculate temp rise at different airflow, use the following formula: Temp. rise across Electric Heater = $\text{kW} \times 3414 / 1.08 \times \text{CFM}$.
- (a) The minimum allowable airflow for a 3 ton with a 17.4 kW heater is 1080 cfm.
(b) The minimum allowable airflow for a 5 ton unit with a 23.0 kW heater is 1900 cfm.

Table 48. Air temperature rise across electric heaters (°F)

		3 Tons ^(a) 1200 cfm	4 Tons 1600 cfm	5 Tons ^(b) 2000 cfm
kW	Stages	Three Phase WS/HC036H3,4,W	Three Phase WS/HC048H3,4,W	Three Phase WS/HC060H3,4,W
6.00	1	18.5	10.5	11.4
12.00	2	36.2	22.3	21.5
17.40	2	48.2	33.0	30.0
17.60	2	—	—	—
23.0	2	—	—	38.8

Notes:

- For minimum design airflow, see airflow performance table for each unit.
 - To calculate temp rise at different airflow, use the following formula: Temp. rise across Electric Heater = $\text{kW} \times 3414 / 1.08 \times \text{CFM}$.
- (a) The minimum allowable airflow for a 3 ton with a 17.4 kW heater is 1080 cfm.
(b) The minimum allowable airflow for a 5 ton unit with a 23.0 kW heater is 1900 cfm.

Heating Performance

Table 49. Reheat temperature rise table

Leaving Evaporator Dry Bulb									
Tons	Unit Model No.	CFM	35	40	45	50	55	60	65
3	THC	600	26.3	24.6	22.8	21.0	19.2	17.5	15.8
3	THC	720	24.4	22.8	21.1	19.4	17.7	16.1	14.6
3	THC	840	22.8	21.3	19.8	18.3	16.7	15.2	13.7
3	T/YHC	960	21.3	20.0	18.6	17.2	15.7	14.3	13.0
3	T/YHC	1080	20.0	18.8	17.5	16.2	14.9	13.6	12.3
3	T/YHC	1200	18.9	17.7	16.5	15.3	14.1	12.9	11.7
3	T/YHC	1320	17.9	16.8	15.7	14.6	13.4	12.2	11.1
3	T/YHC	1440	17.0	16.0	14.9	13.9	12.8	11.7	10.6
4	THC	800	18.1	16.7	15.4	14.1	12.8	11.6	10.6
4	THC	960	16.5	15.3	14.1	12.9	11.7	10.6	9.6
4	THC	1120	15.1	14.0	12.9	11.9	10.8	9.8	8.8
4	T/YHC	1280	14.0	13.0	12.0	11.0	10.0	9.1	8.2
4	T/YHC	1440	13.1	12.2	11.3	10.3	9.4	8.5	7.7
4	T/YHC	1600	12.3	11.4	10.6	9.7	8.8	8.0	7.2
4	T/YHC	1760	11.6	10.8	10.0	9.2	8.4	7.6	6.8
4	T/YHC	1920	10.9	10.2	9.4	8.7	7.9	7.2	6.4
5	THC	1000	24.4	22.9	21.5	20.1	18.8	17.4	16.1
5	THC	1200	22.4	21.1	19.8	18.5	17.3	16.1	14.9
5	THC	1400	20.8	19.6	18.4	17.2	16.1	15.0	13.9
5	T/YHC	1600	19.4	18.3	17.2	16.1	15.0	14.0	13.0
5	T/YHC	1800	18.1	17.1	16.1	15.1	14.2	13.2	12.2
5	T/YHC	2000	17.0	16.1	15.2	14.3	13.4	12.4	11.5
5	T/YHC	2200	16.1	15.3	14.4	13.5	12.6	11.8	10.9
5	T/YHC	2400	15.2	14.4	13.7	12.8	12.0	11.2	10.4

Pressure Curves

Figure 1. T/YSC036G3,4,W cooling cycle pressure curve

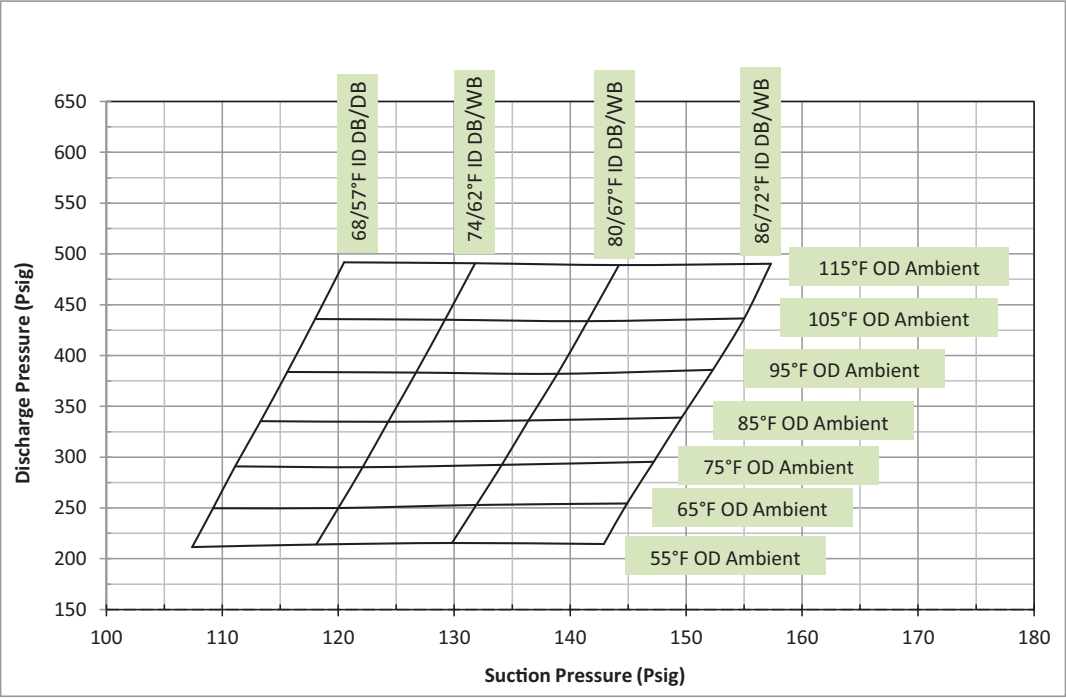
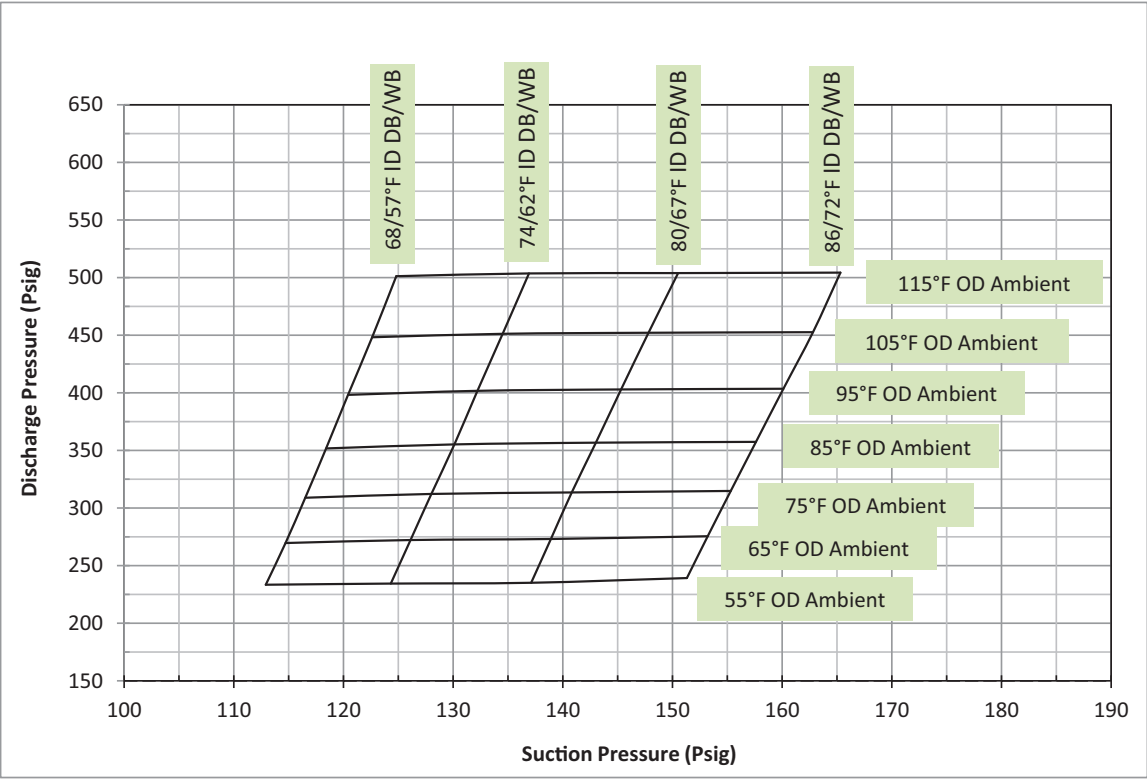


Figure 2. T/YSC048G3,4,W cooling cycle pressure curve



Pressure Curves

Figure 3. T/YSC060G3,4,W cooling cycle pressure curve

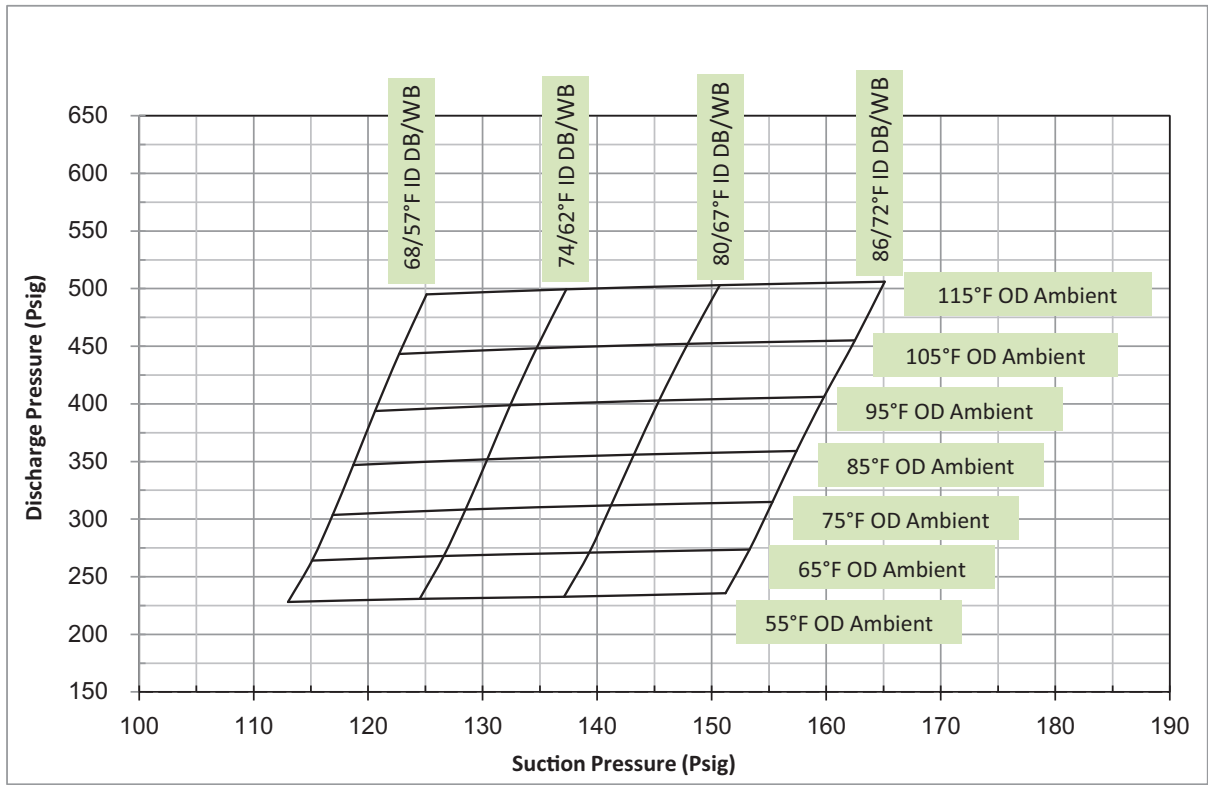


Figure 4. T/YHC036E3,E4 cooling cycle pressure curve

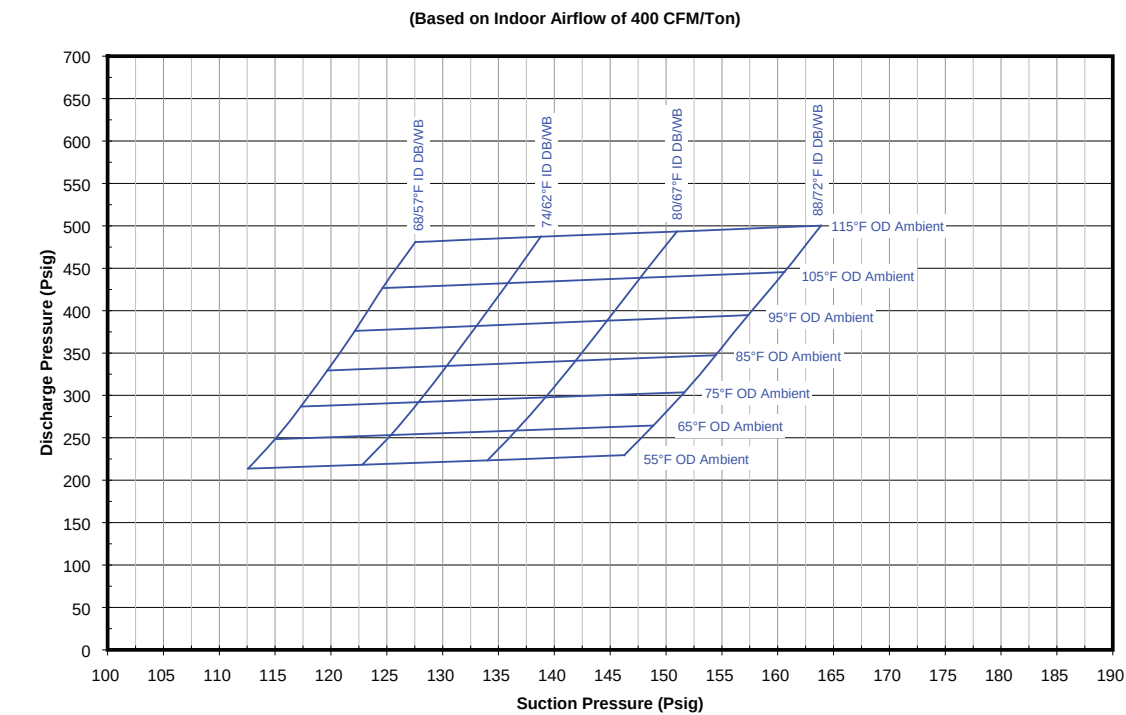


Figure 5. T/YHC048E3,E4 cooling cycle pressure curve

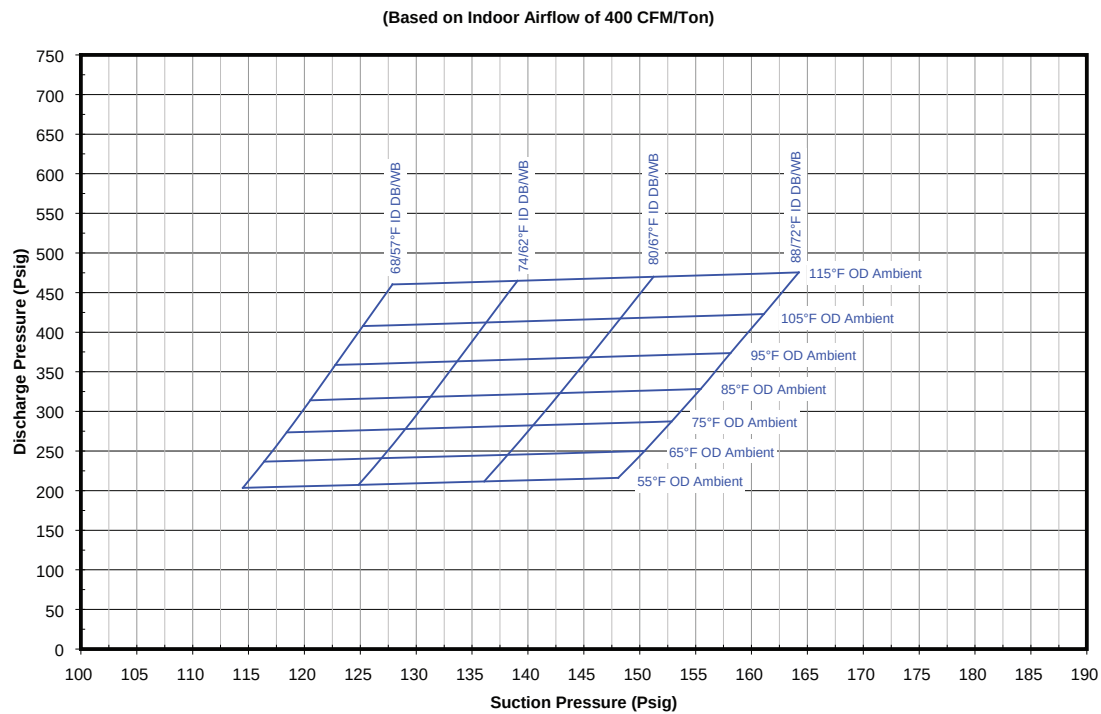
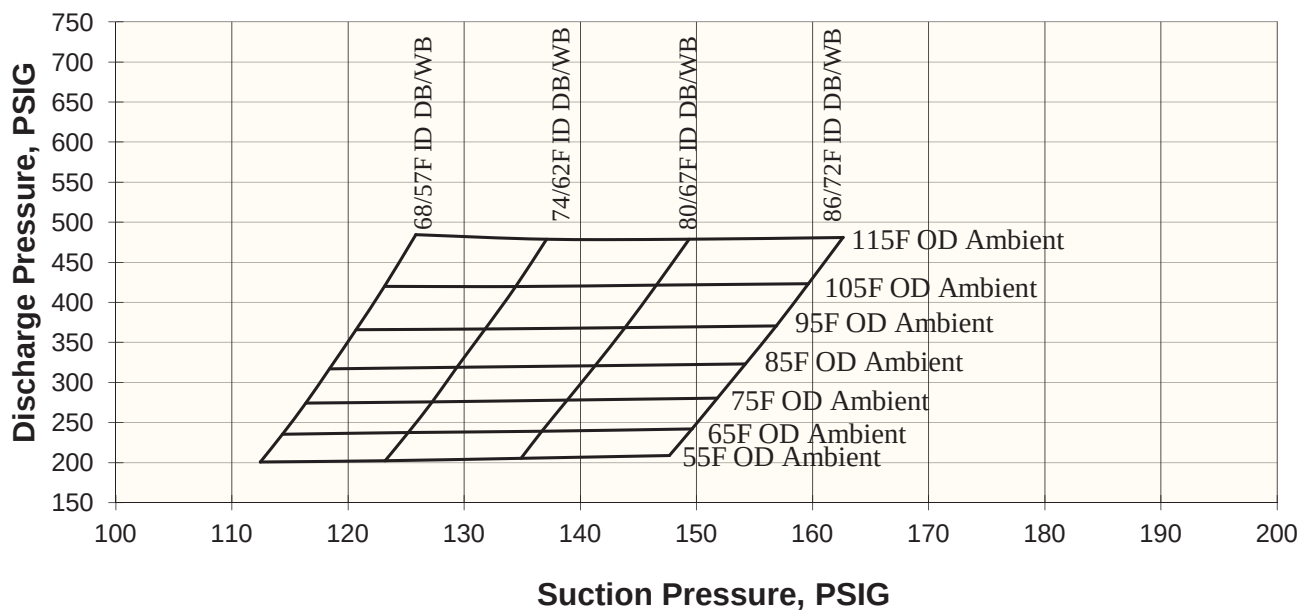


Figure 6. T/YHC048F3,F4 cooling cycle pressure curve

(Based on Indoor Airflow of 400 CFM / Ton)



Pressure Curves

Figure 7. T/YHC060E3,E4 cooling cycle pressure curve

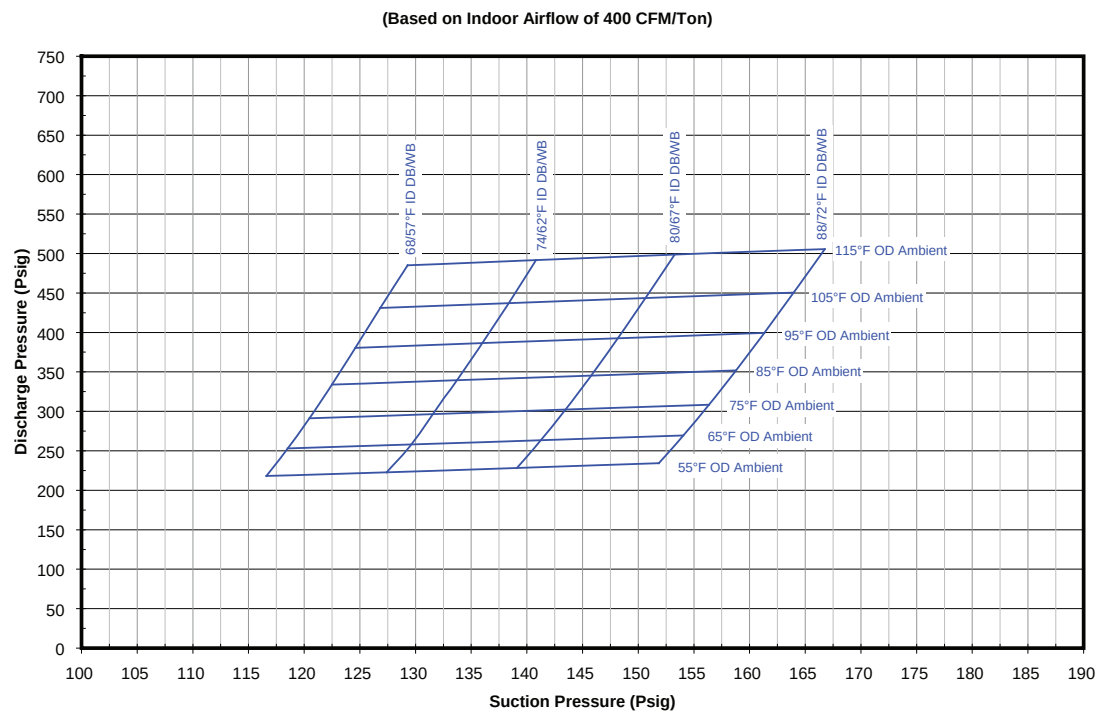


Figure 8. T/YHC060F3,F4 cooling cycle pressure curve

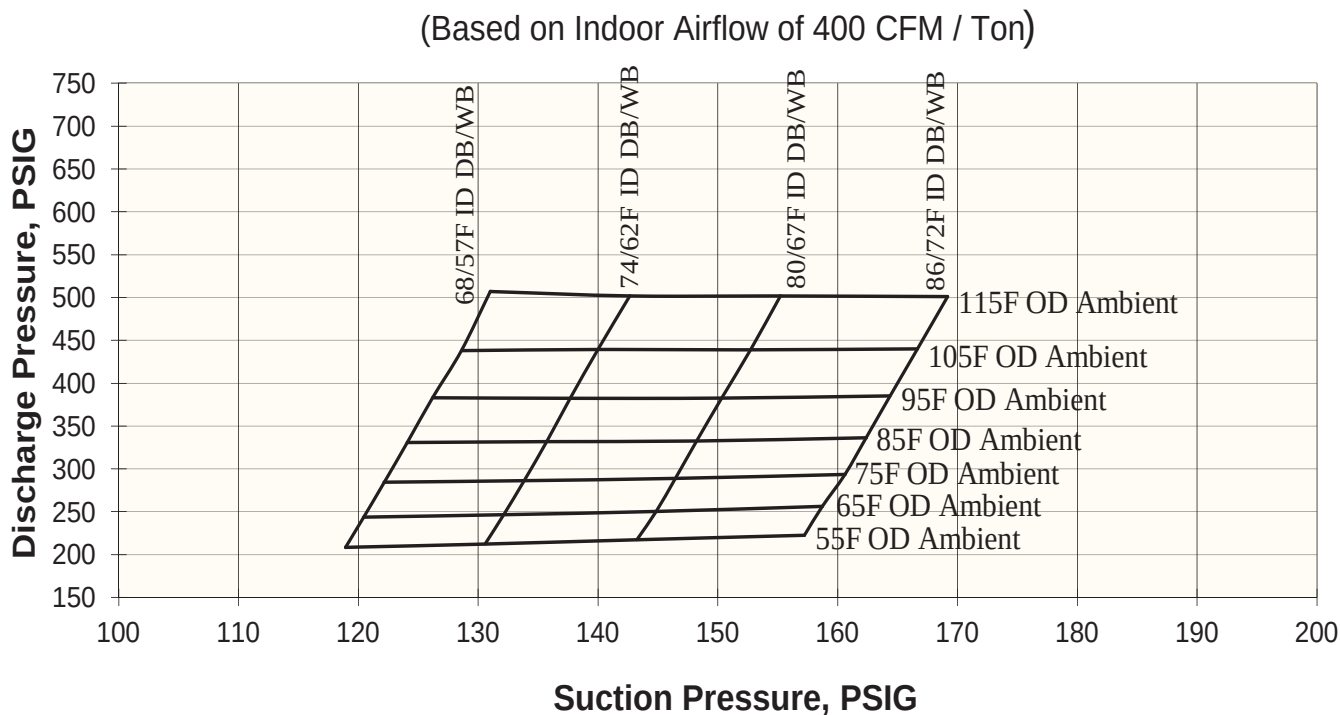


Figure 9. WSC036H3,4,W cooling cycle pressure curve

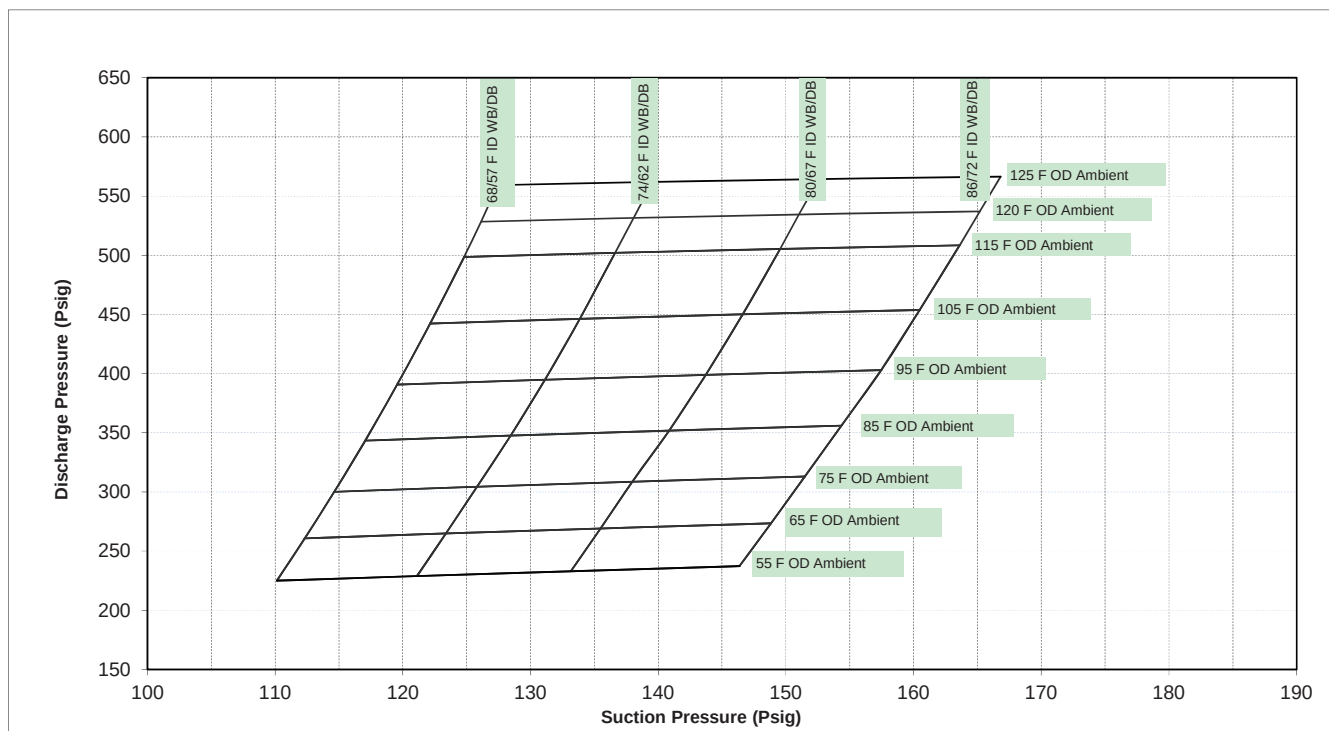
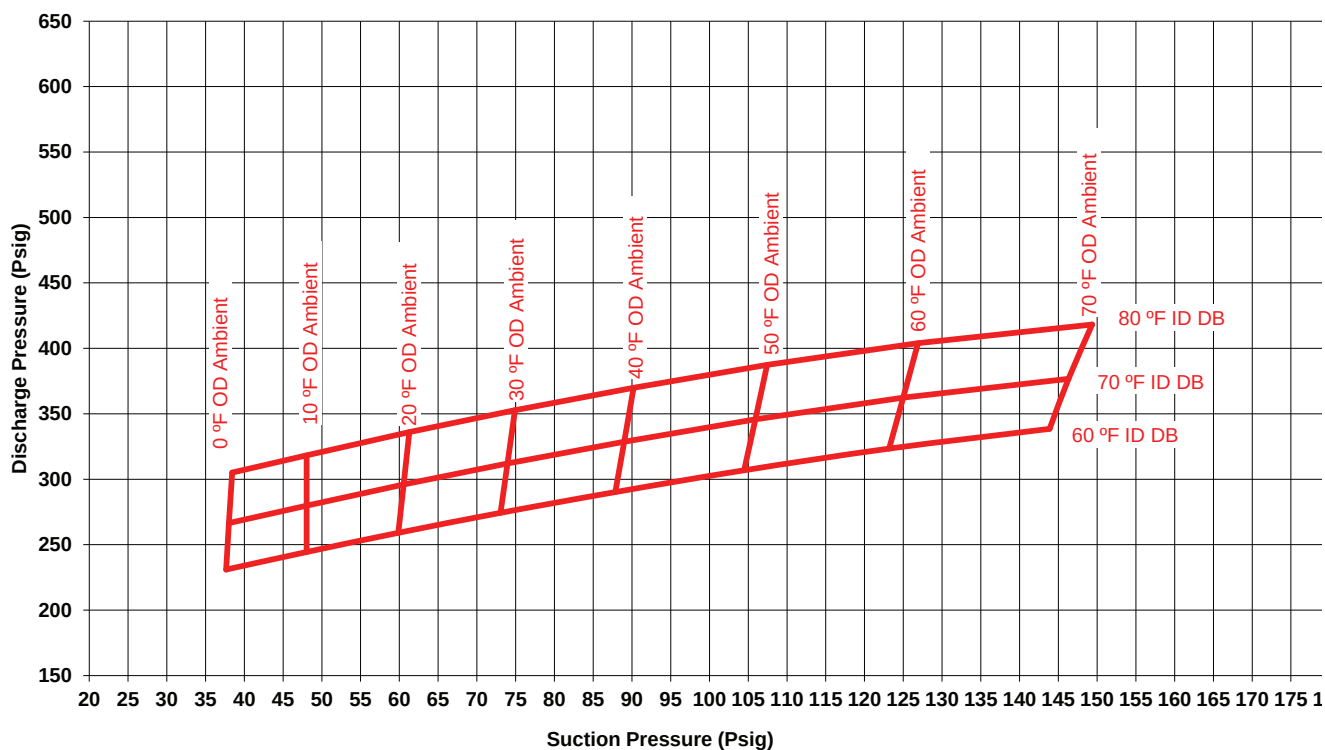


Figure 10. WSC036H3,4,W heating pressure curve



Pressure Curves

Figure 11. WSC048H3,4,W cooling cycle pressure curve

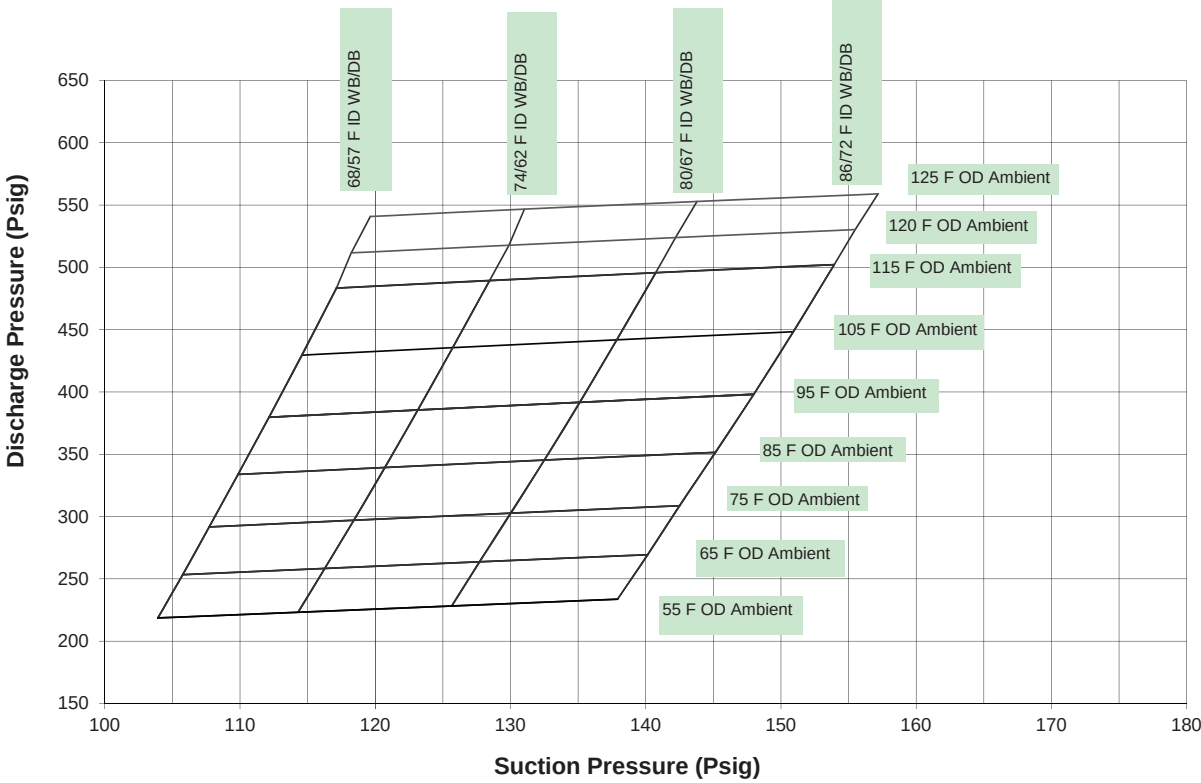


Figure 12. WSC048H3,4,W heating pressure curve

(Based on Indoor Airflow of 400 CFM/Ton)

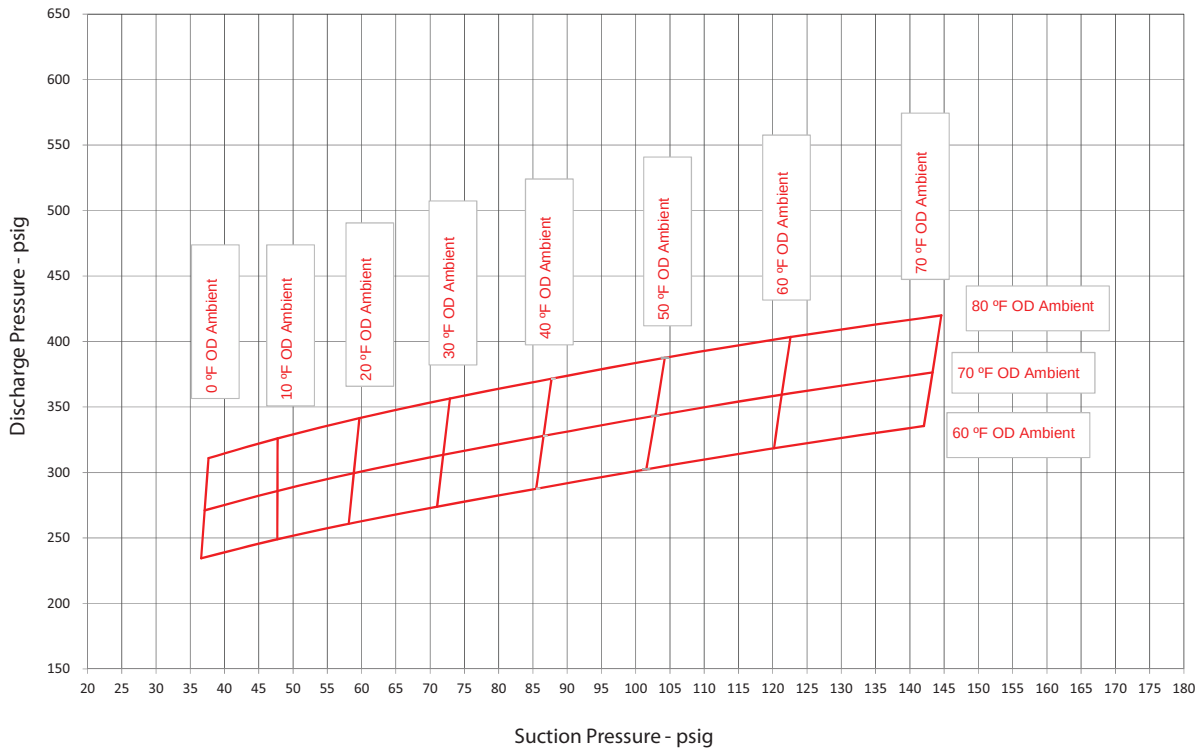


Figure 13. WSC060H3,4,W cooling cycle pressure curve

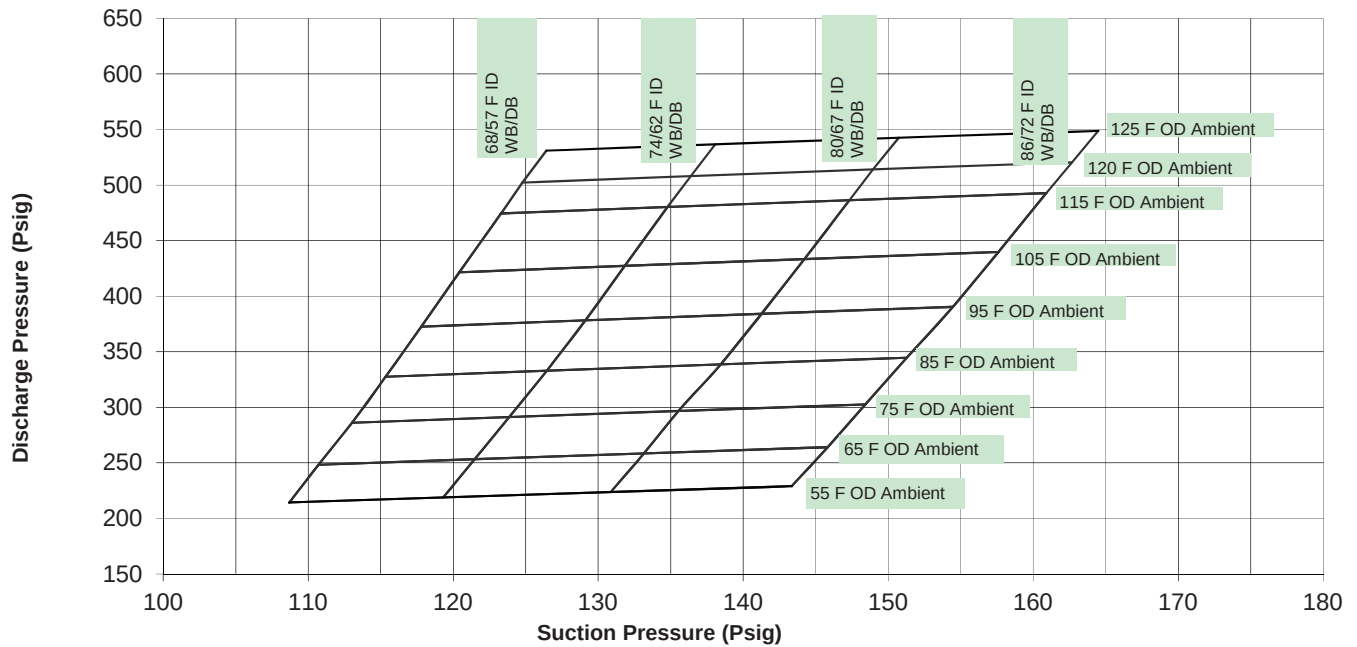
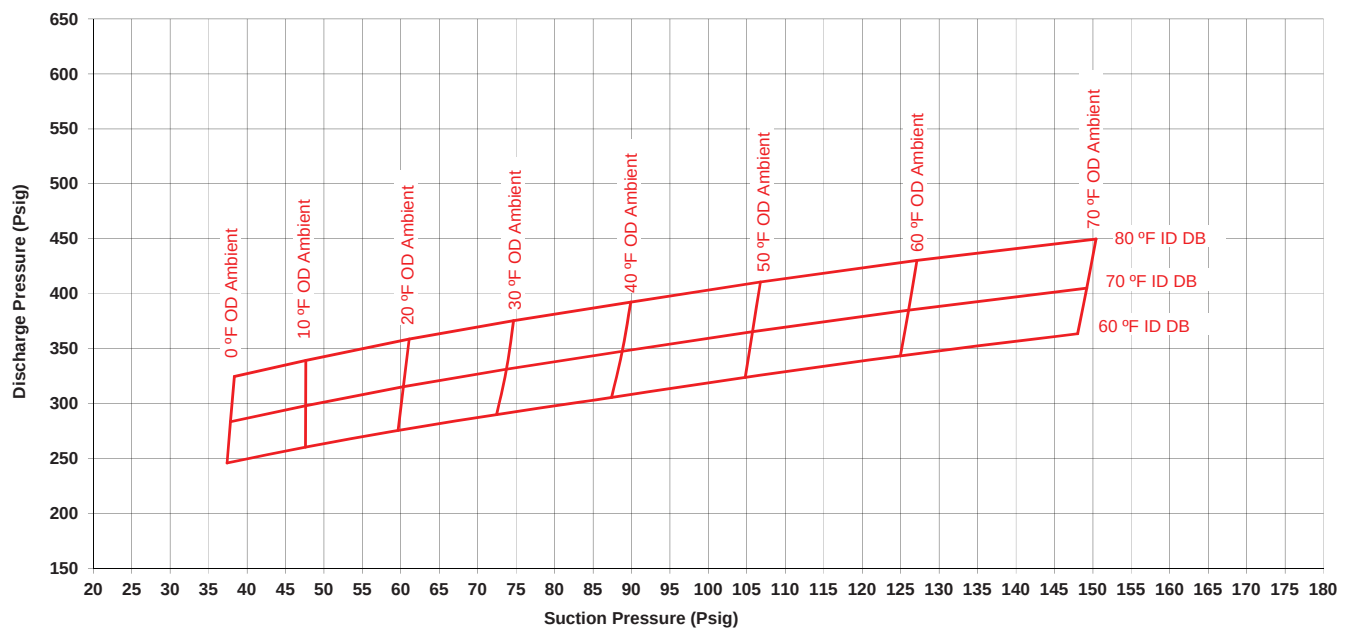


Figure 14. WSC060H3,4,W heating pressure curve

(Based on Indoor Airflow of 400 CFM/Ton)



Pressure Curves

Figure 15. W/DHC036H3,4,W cooling cycle high stage pressure curve

(Based on Indoor Airflow of 400 CFM/Ton)

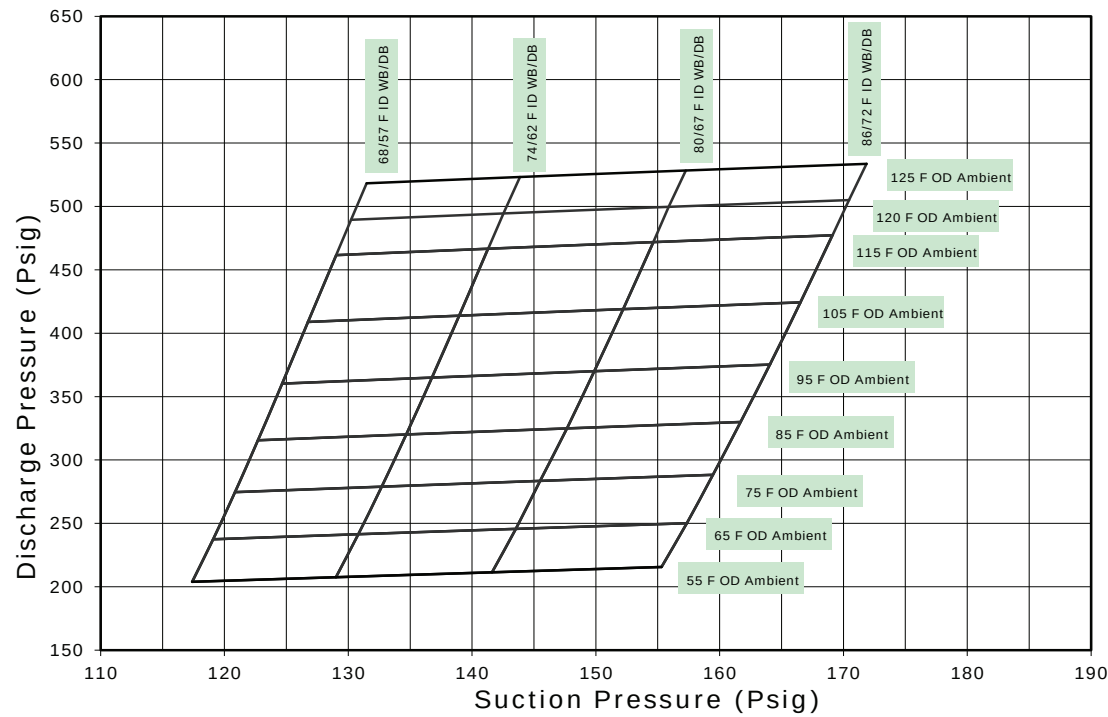


Figure 16. W/DHC036H3,4,W cooling cycle low stage pressure curve

(Based on Indoor Airflow of 280CFM/Ton)

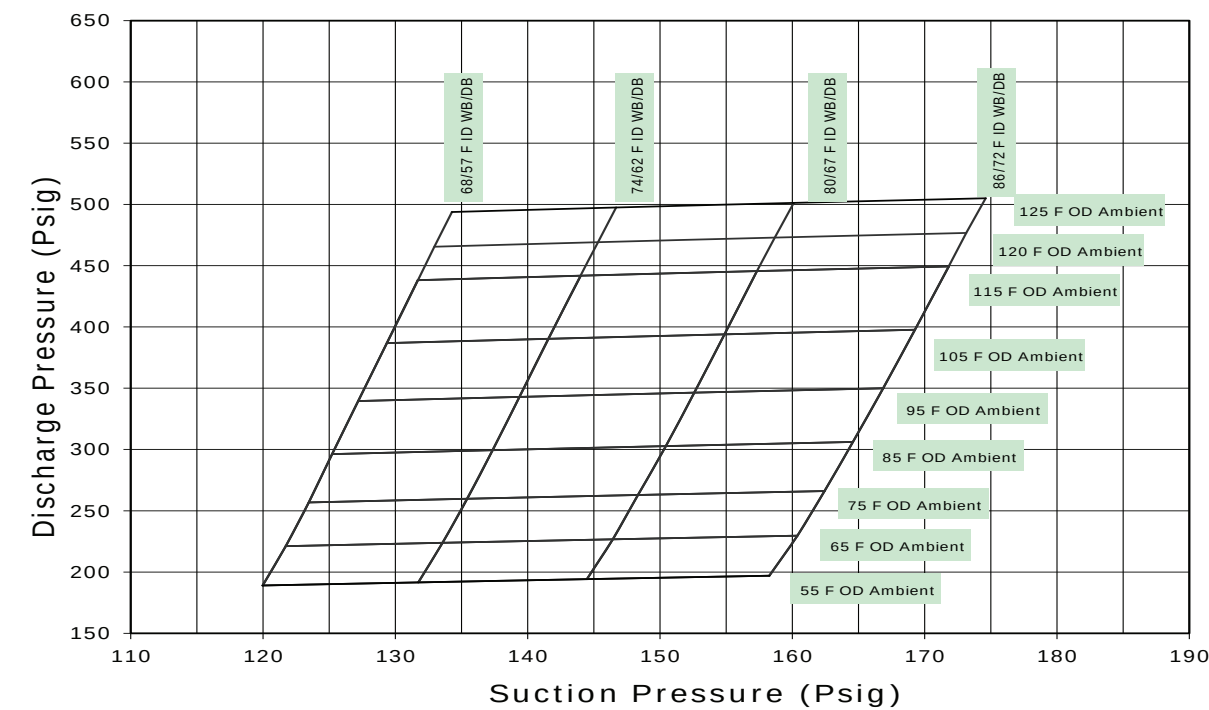
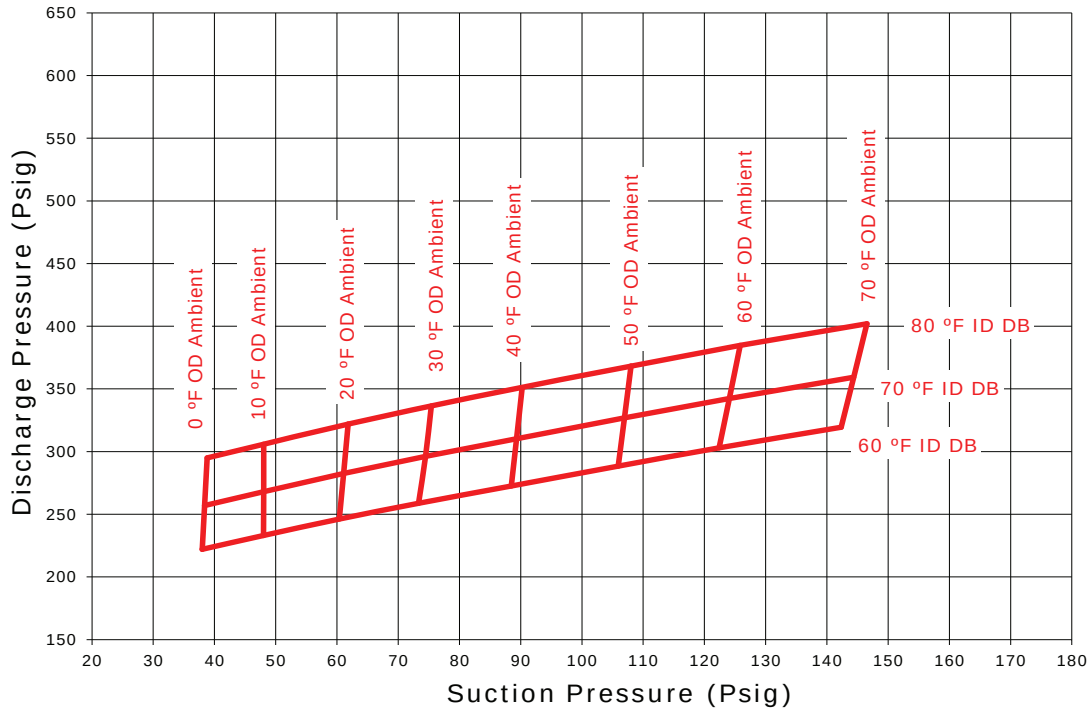


Figure 17. W/DHC036H3,4,W heating high stage pressure curve

(Based on Indoor Airflow of 400 CFM/Ton)



Pressure Curves

Figure 18. W/DHC036H3,4,W heating low stage pressure curve

(Based on Indoor Airflow of 280 CFM/Ton)

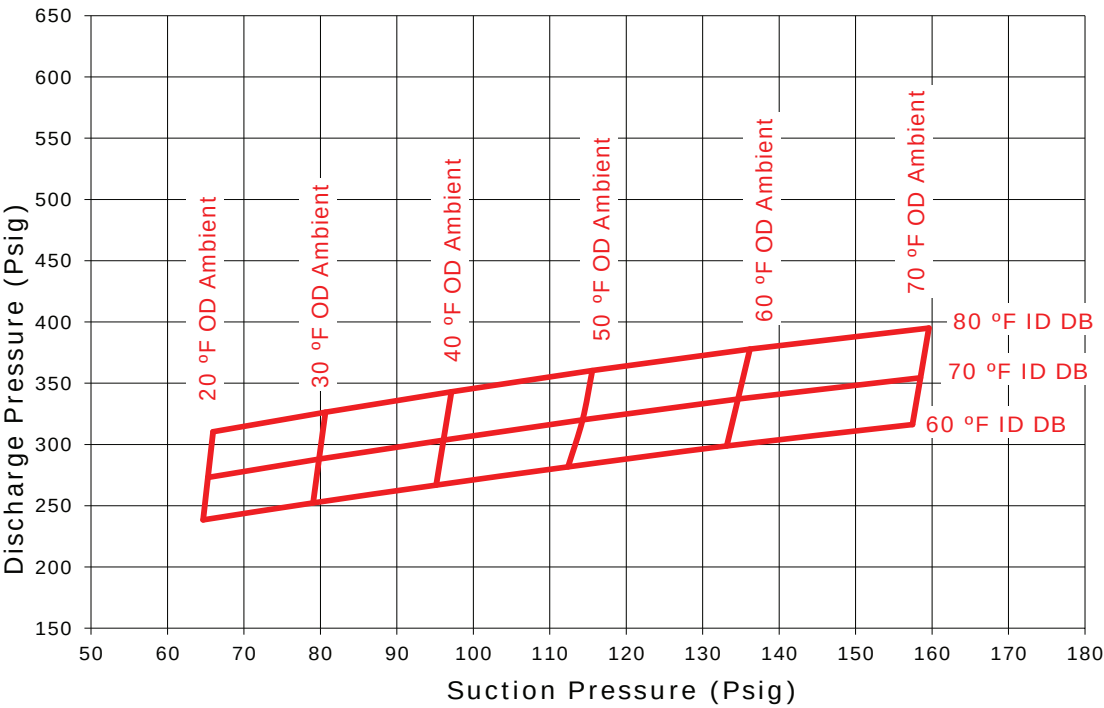


Figure 19. W/DHC048H3,4,W cooling cycle high stage pressure curve

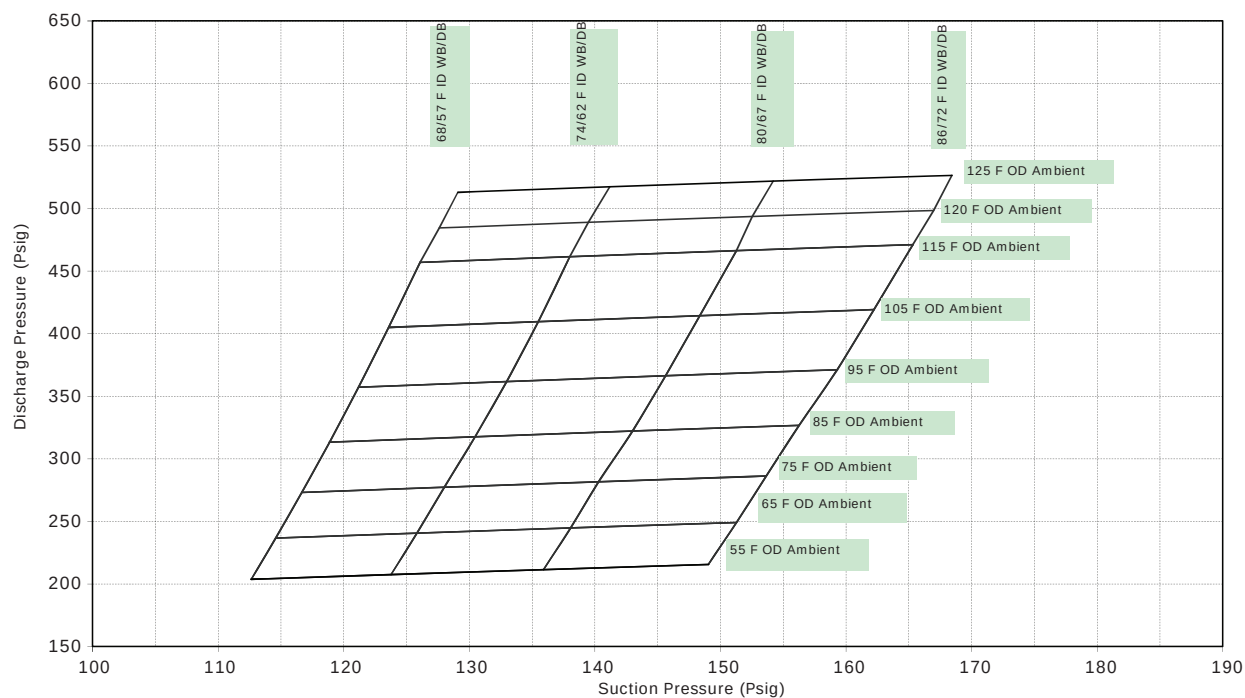
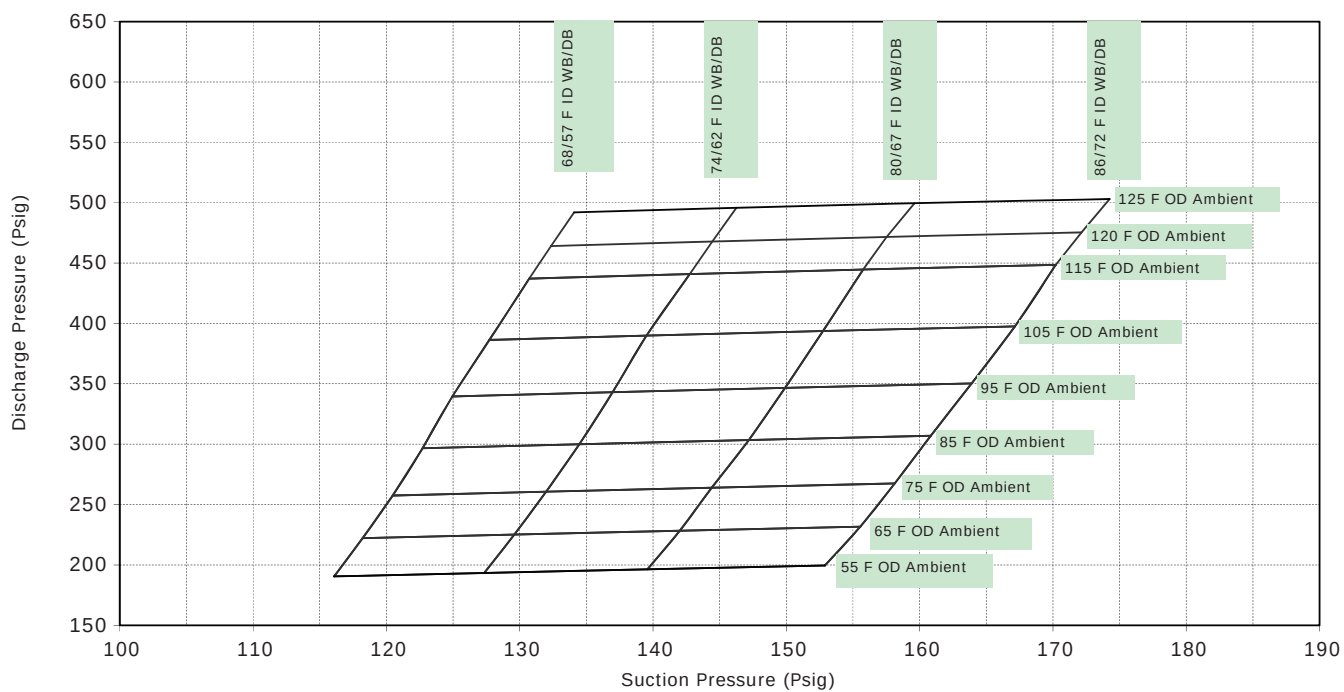


Figure 20. W/DHC048H3,4,W cooling cycle low stage pressure curve



Pressure Curves

Figure 21. W/DHC48H3,4,W heating high stage pressure curve

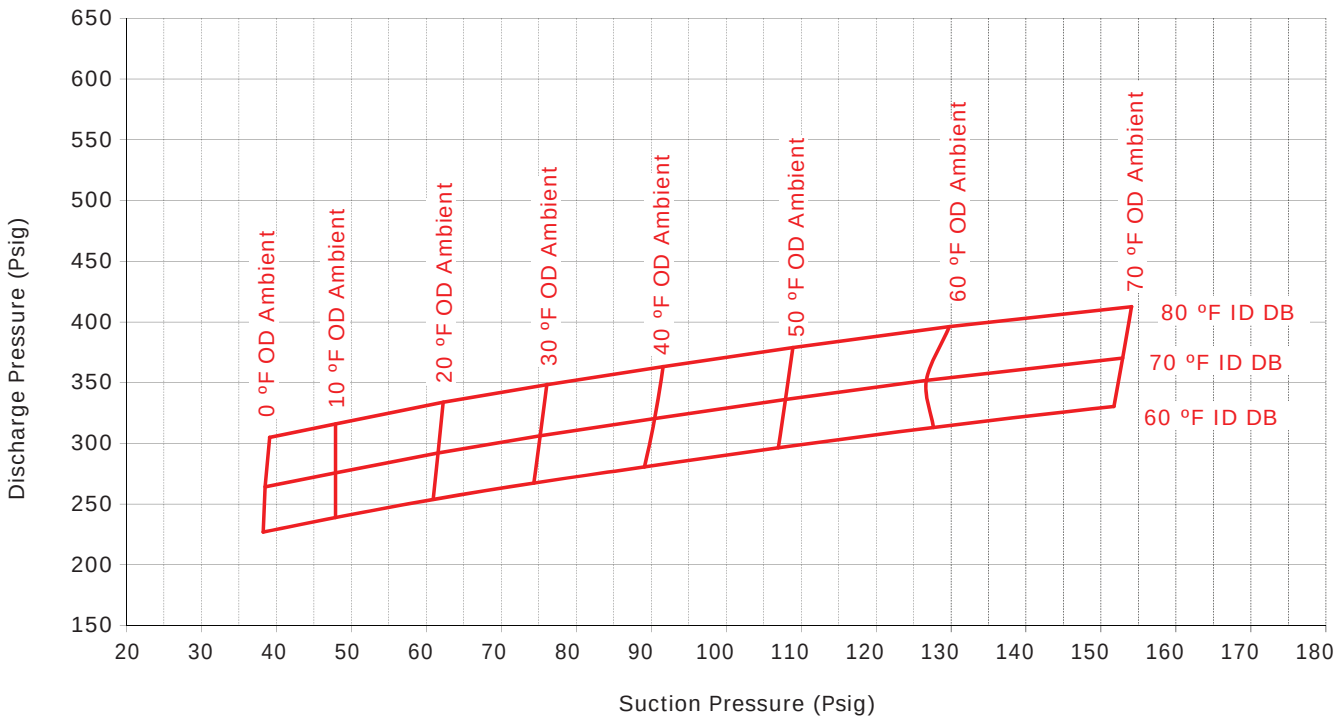


Figure 22. W/DHC048H3,4,W heating low stage pressure curve

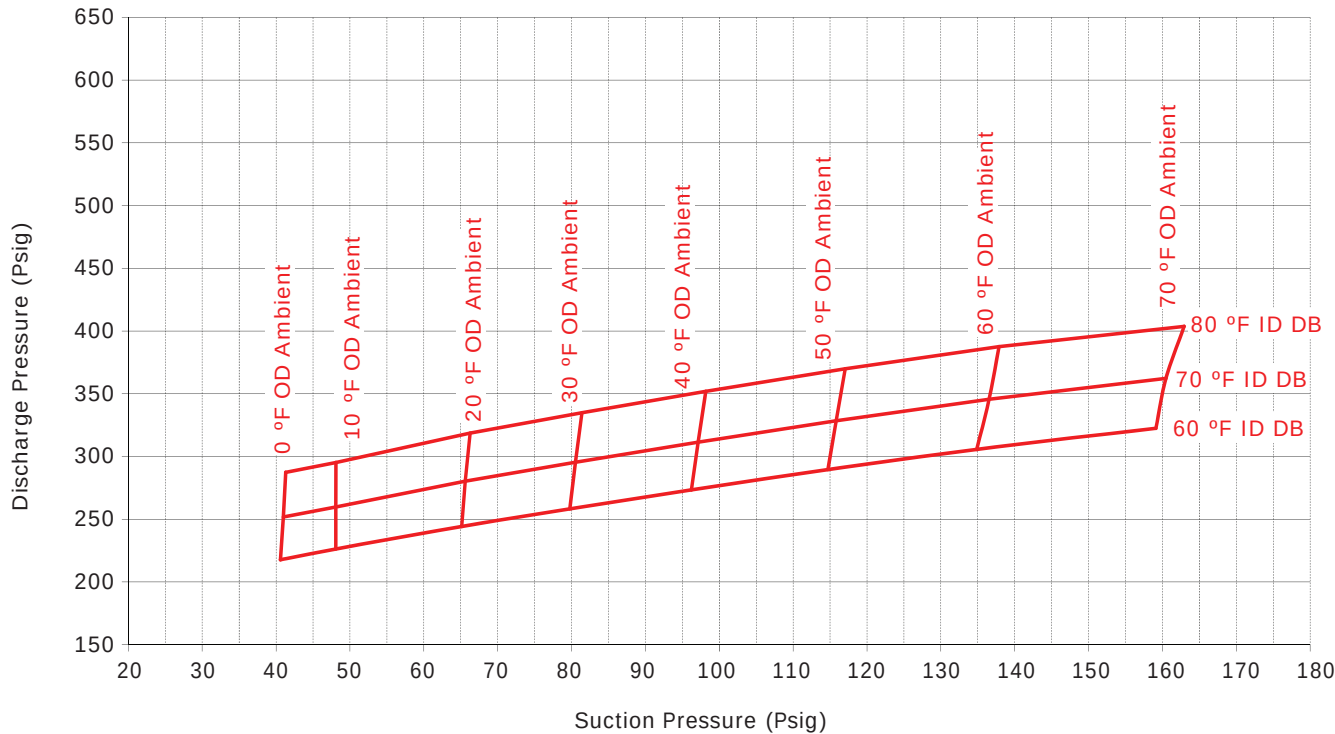


Figure 23. W/DHC060H3,4,W cooling cycle high stage pressure curve

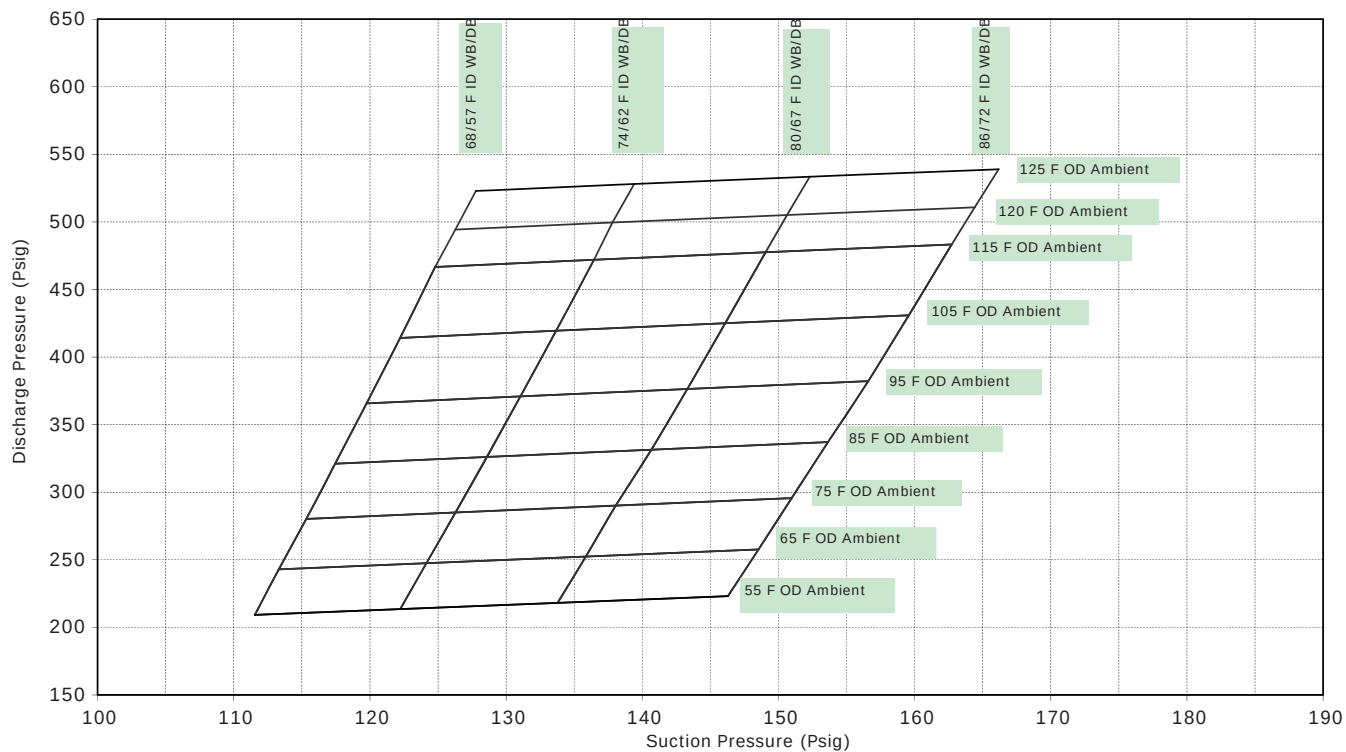
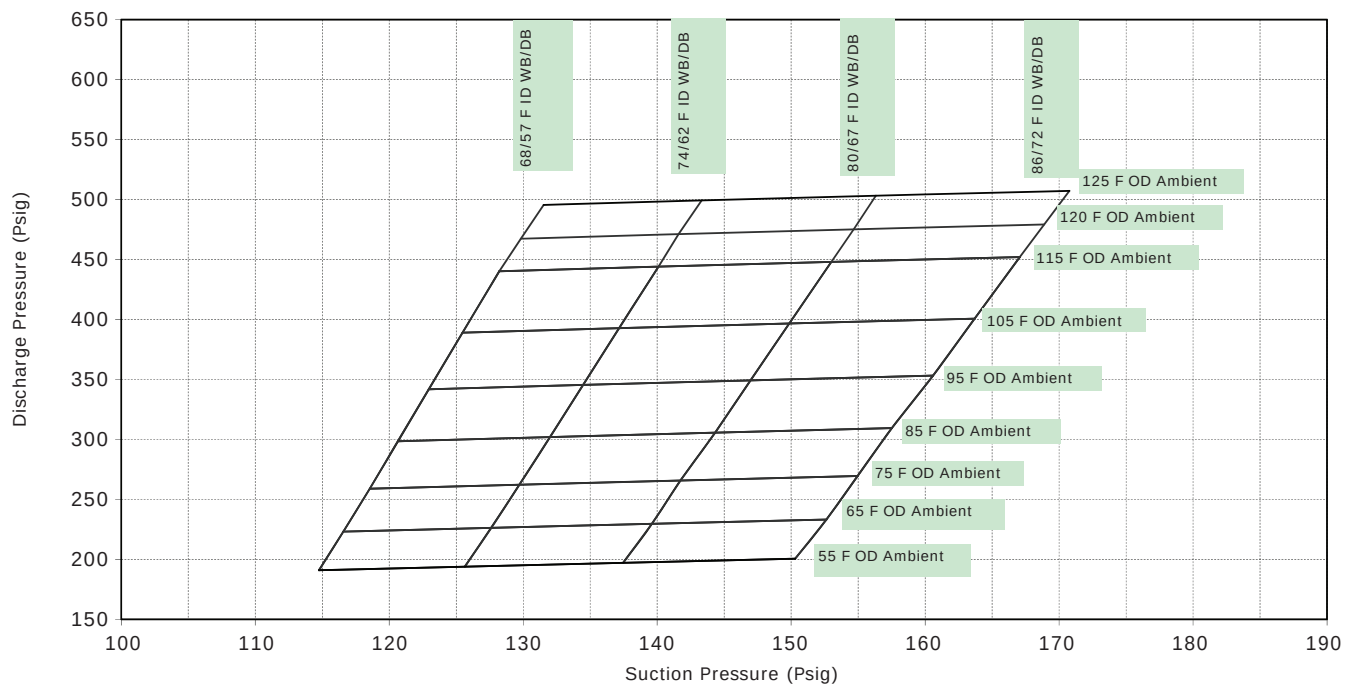


Figure 24. W/DHC060H3,4,W cooling cycle low stage pressure curve



Pressure Curves

Figure 25. W/DHC060H3,4,W heating high stage pressure curve

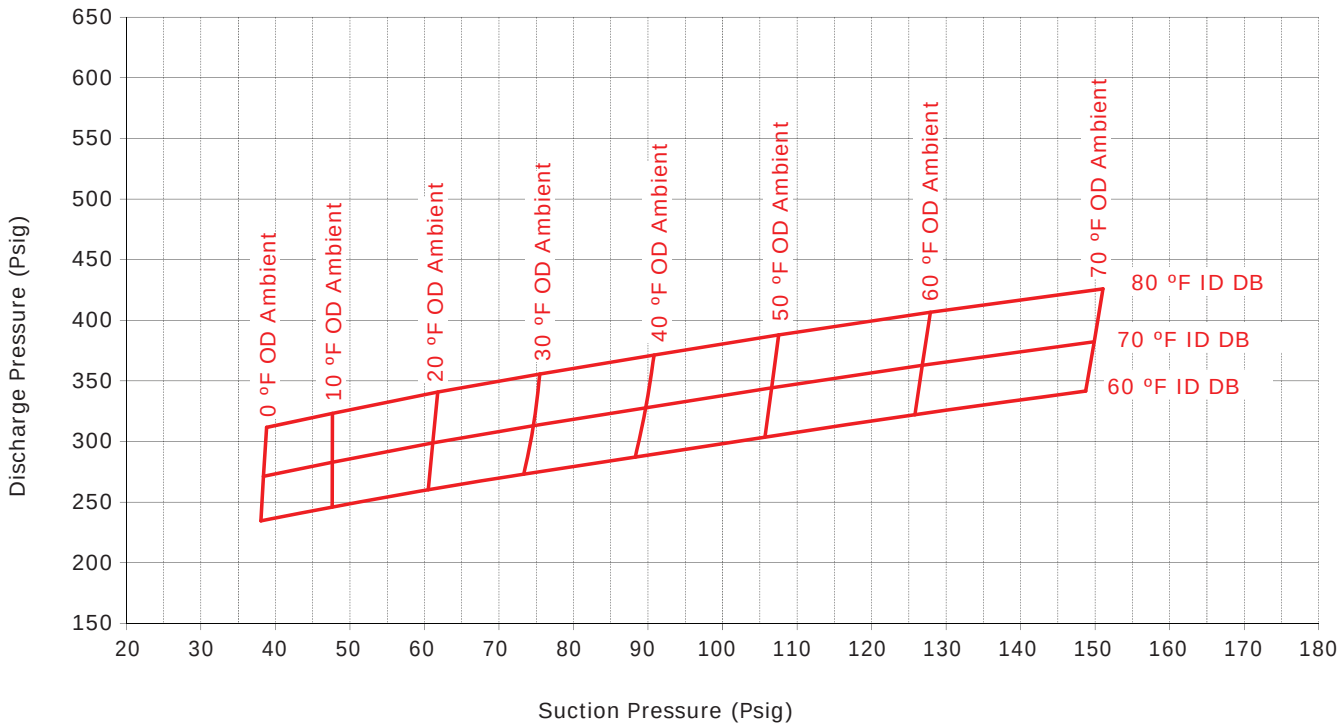
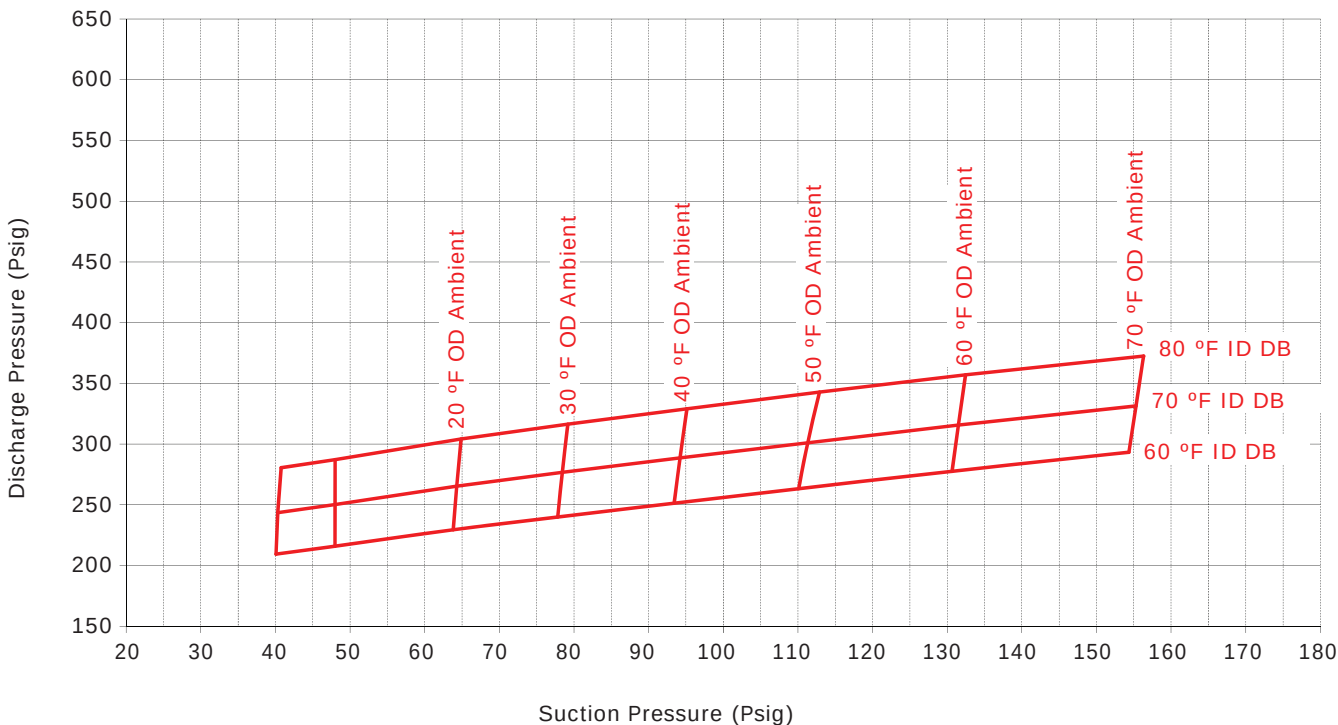


Figure 26. W/DHC060H3,4,W heating low stage pressure curve



Subcooling Charging Charts

Figure 27. T/YSC036G3,4,W subcooling charging chart

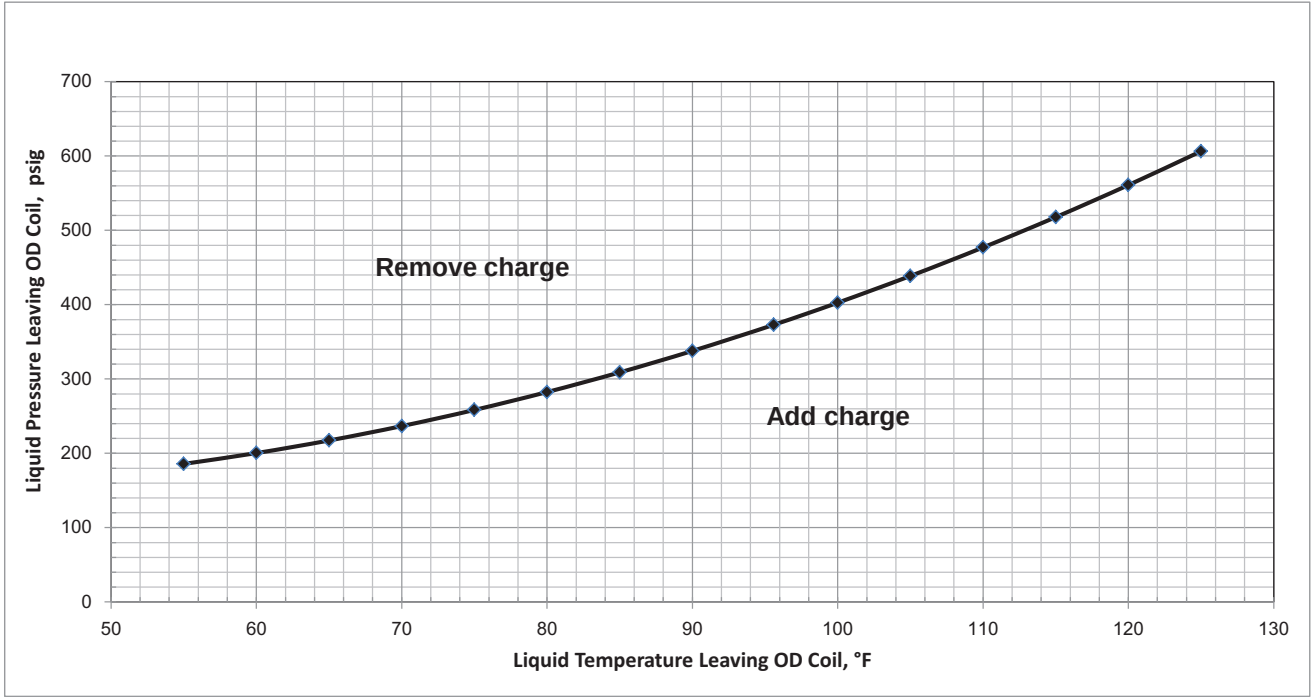
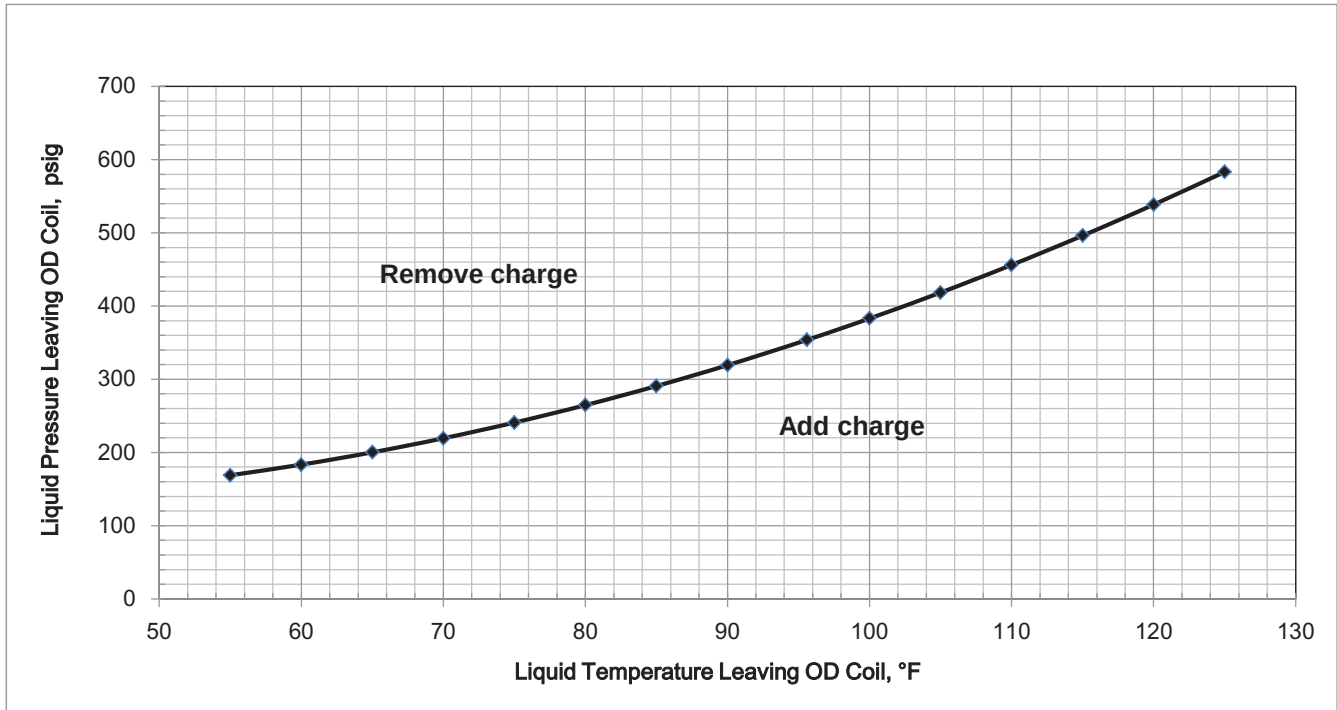


Figure 28. T/YSC048G3,4,W subcooling charging chart



Subcooling Charging Charts

Figure 29. T/YSC060G3,4,W subcooling charging chart

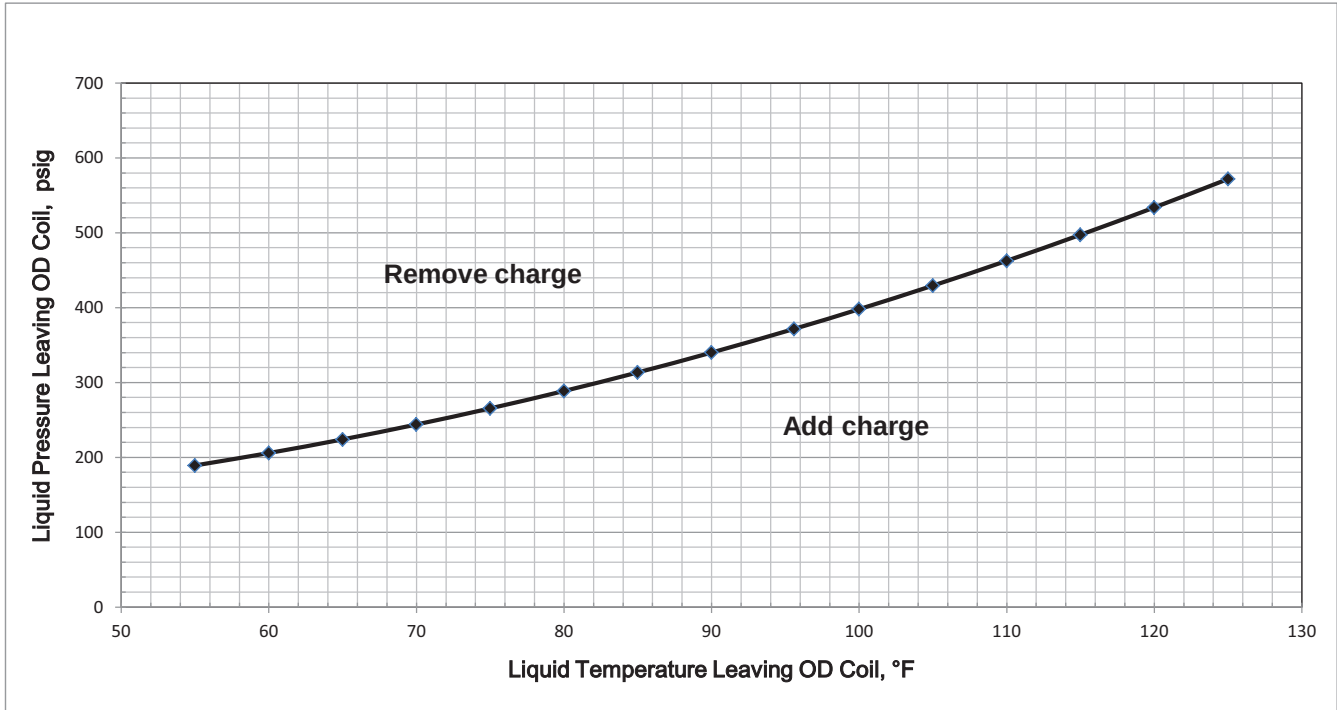


Figure 30. T/YHC036E3,E4 subcooling charging chart

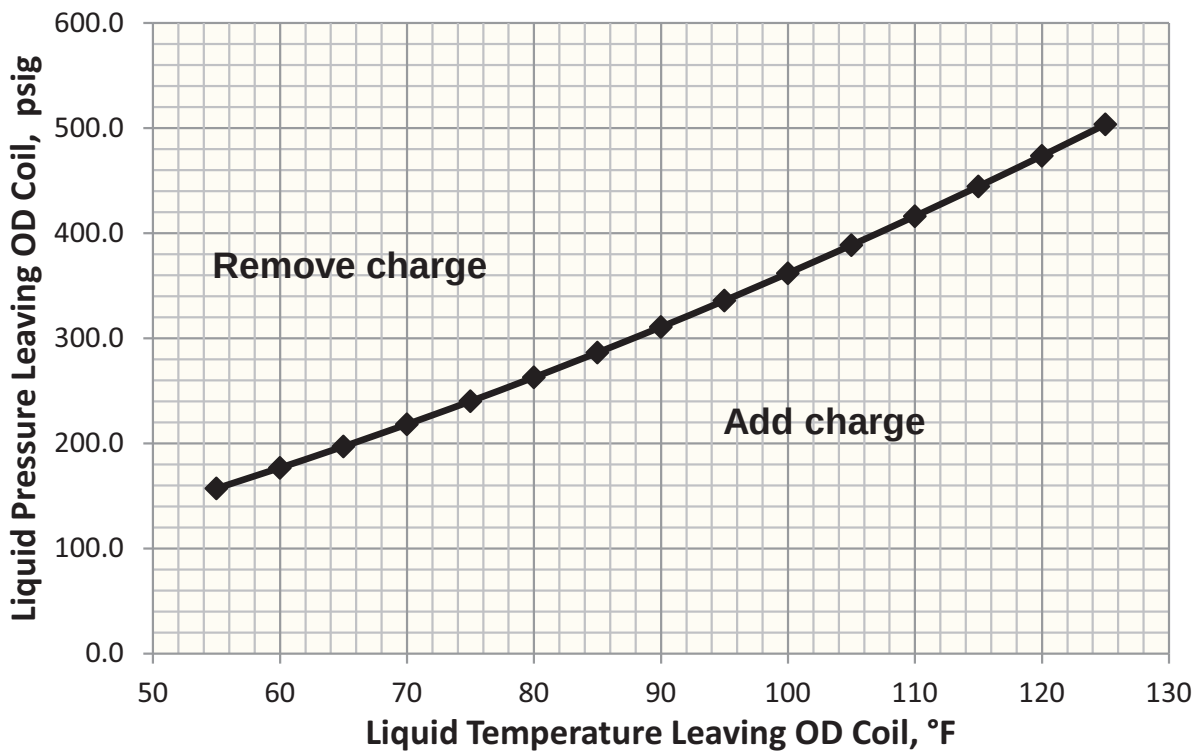


Figure 31. T/YHC048E3,E4 subcooling charging chart (dehumidification)

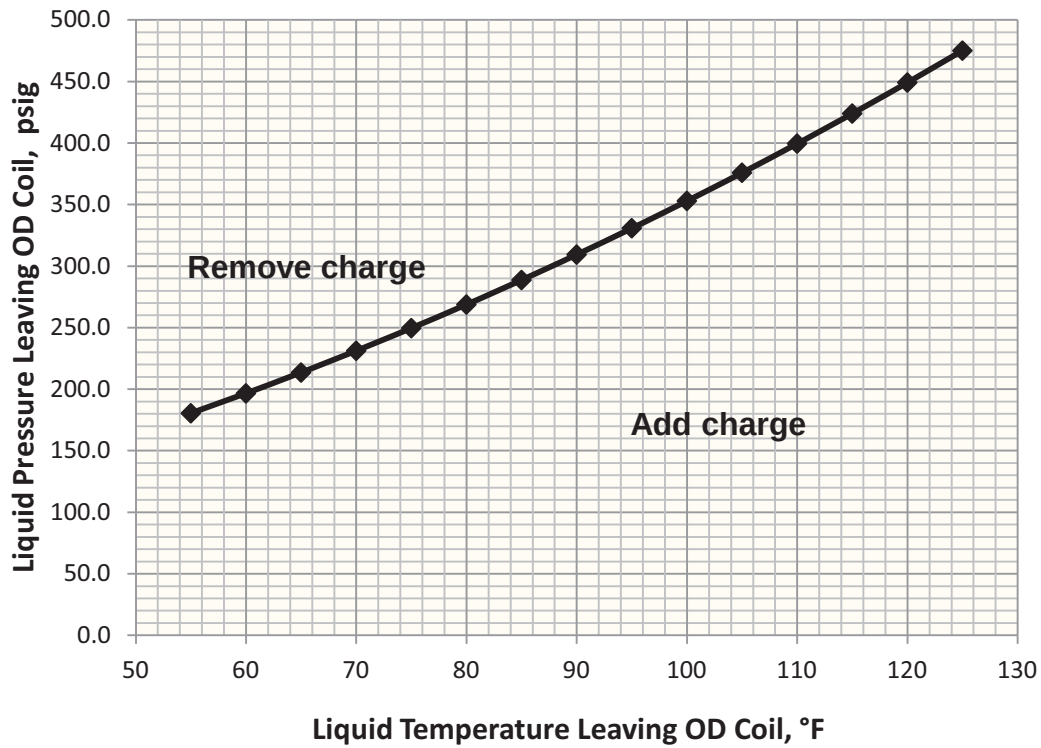
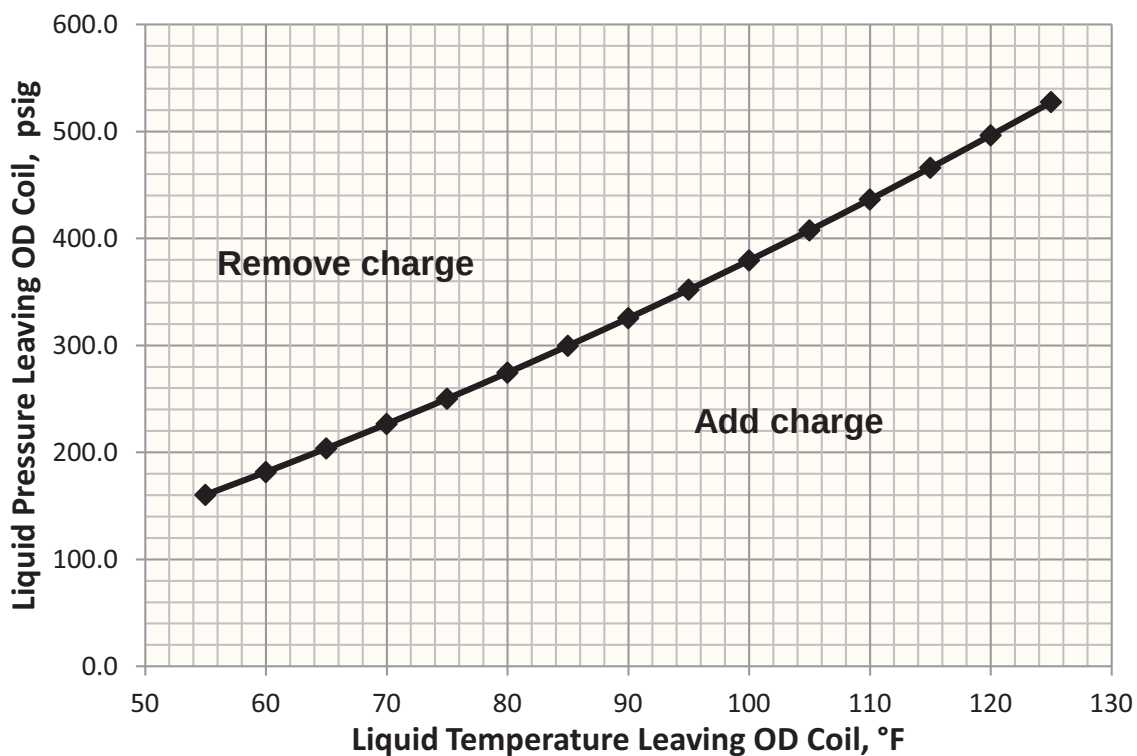


Figure 32. T/YHC048F3,F4 Subcooling charging chart



Subcooling Charging Charts

Figure 33. T/YHC060E3,E4 subcooling charging chart (dehumidification)

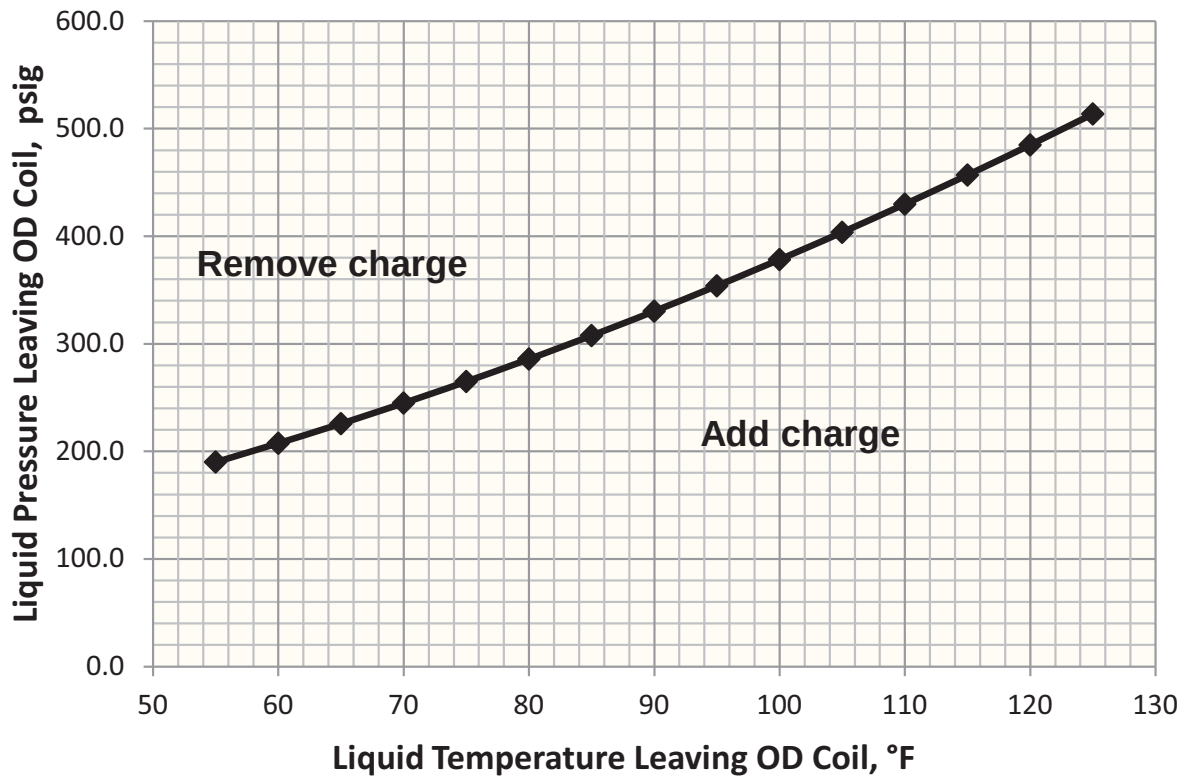


Figure 34. T/YHC060F3,F4 subcooling charging chart

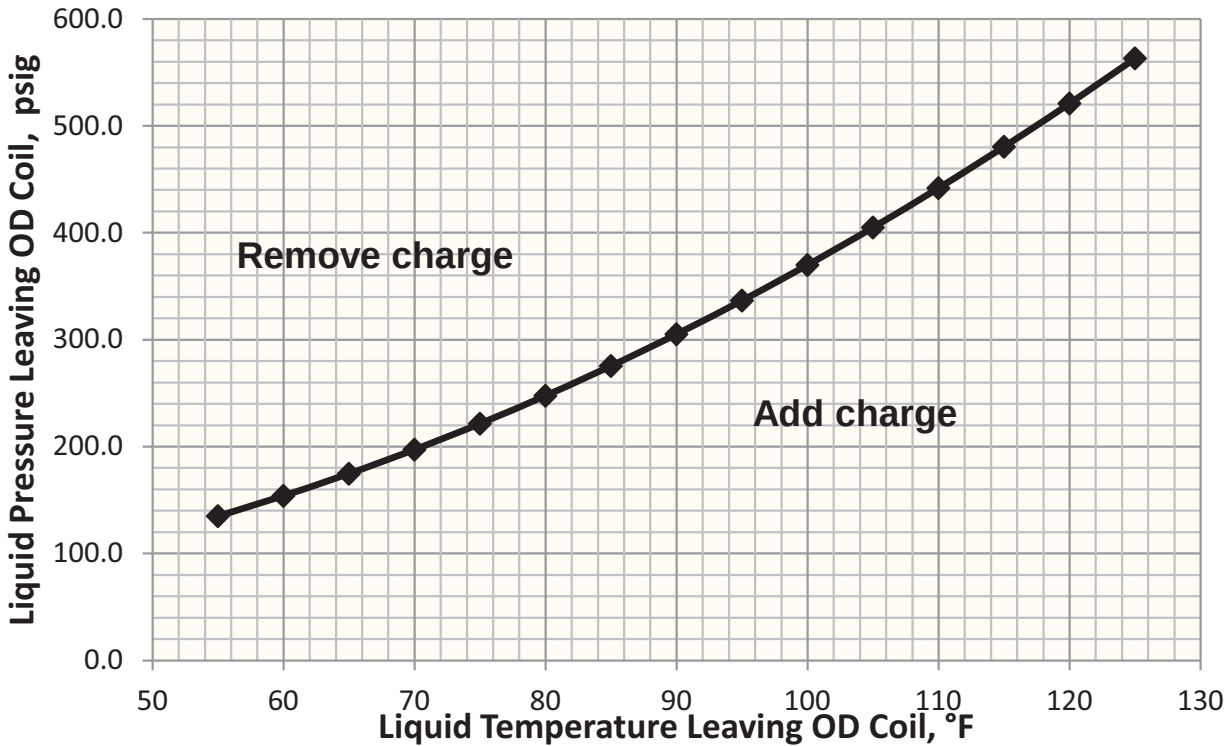


Figure 35. WSC036H3,4,W subcooling charging chart - cooling

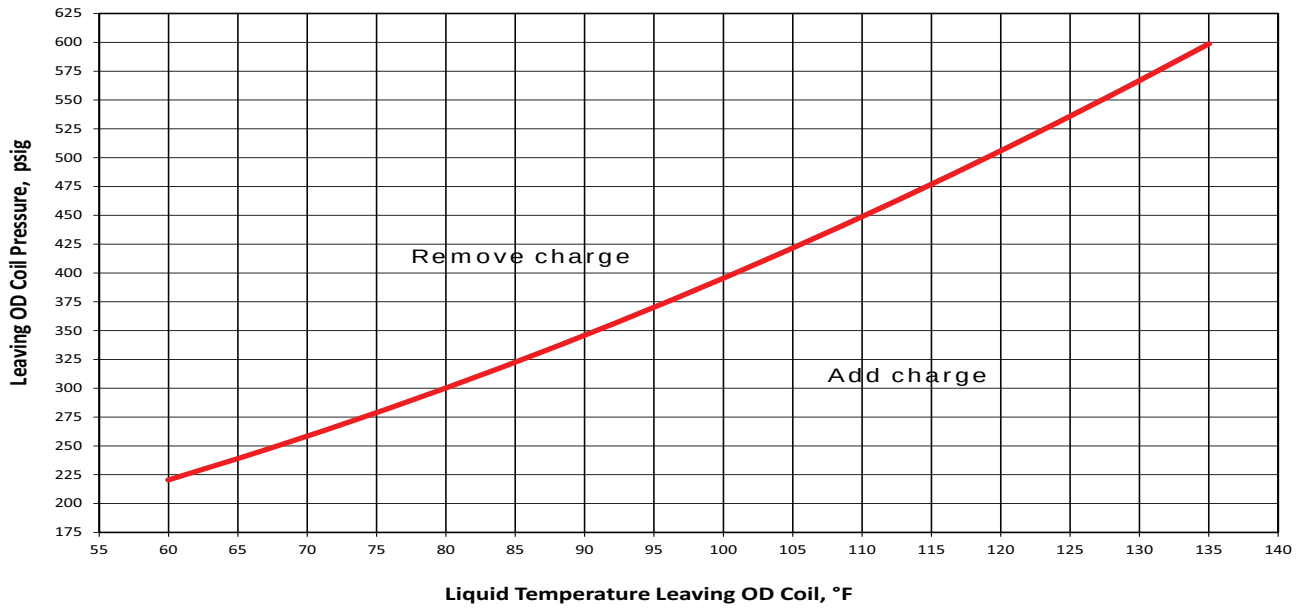
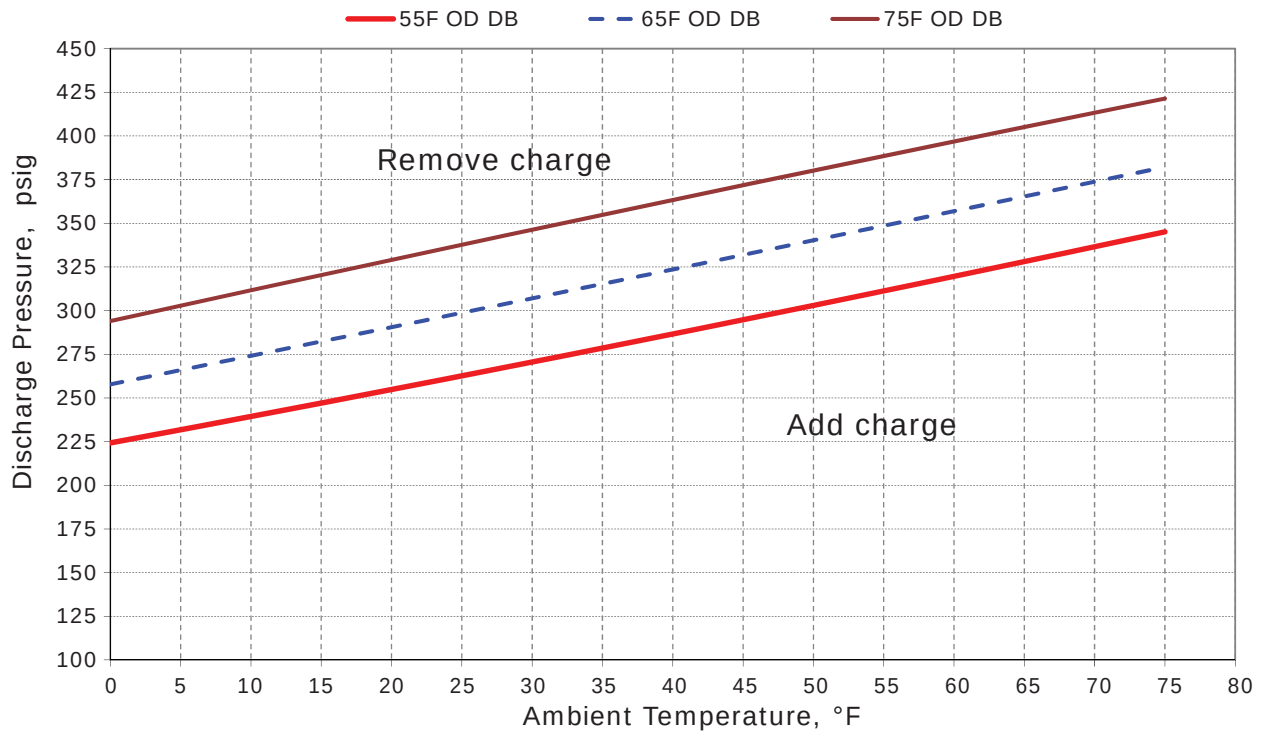


Figure 36. WSC036H3,4,W subcooling charging chart - heating



Subcooling Charging Charts

Figure 37. WSC048H3,4,W subcooling charging chart - cooling

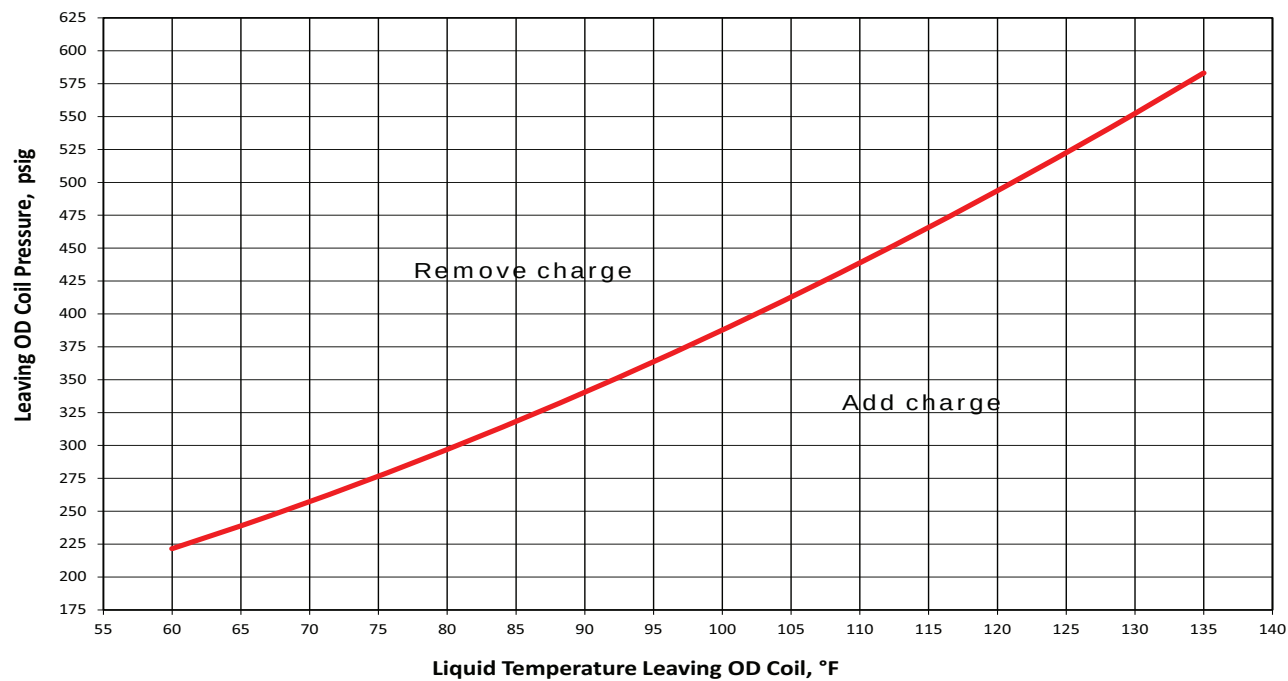


Figure 38. WSC048H3,4,W subcooling charging chart - heating

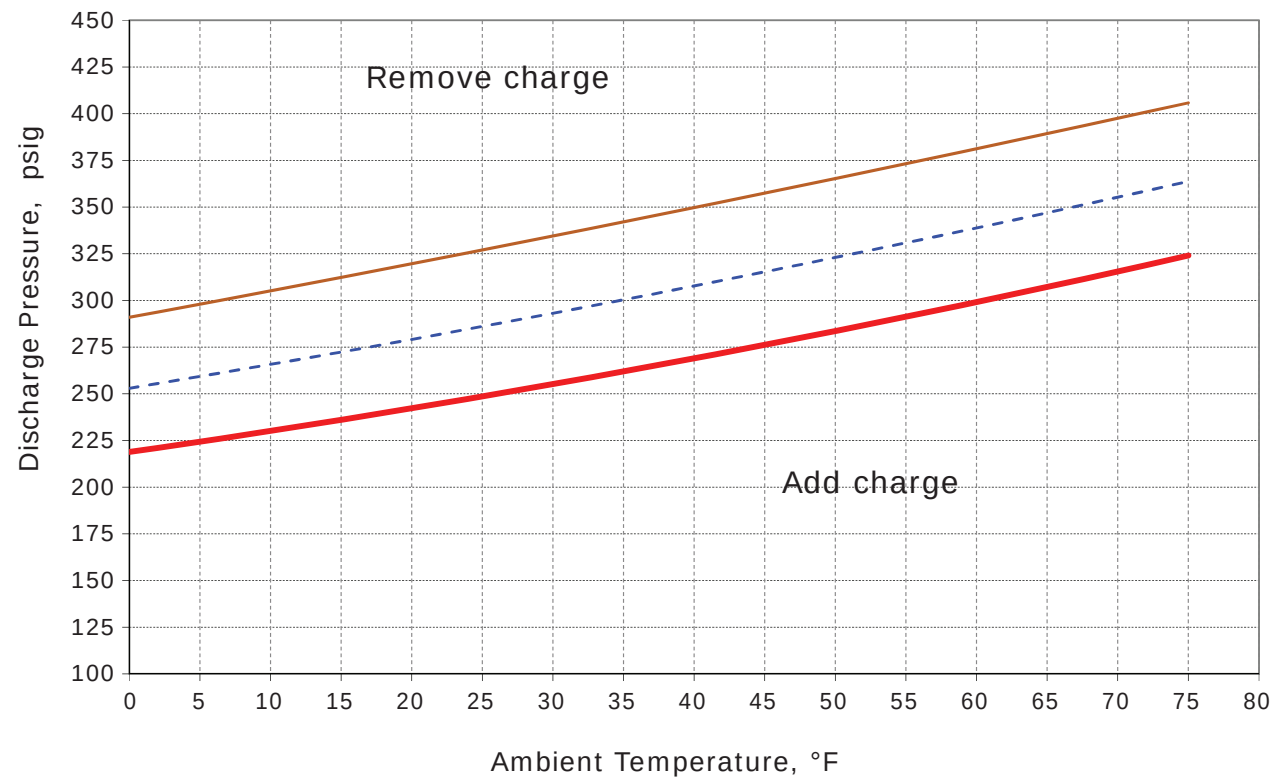


Figure 39. WSC060H3,4,W subcooling charging chart - cooling

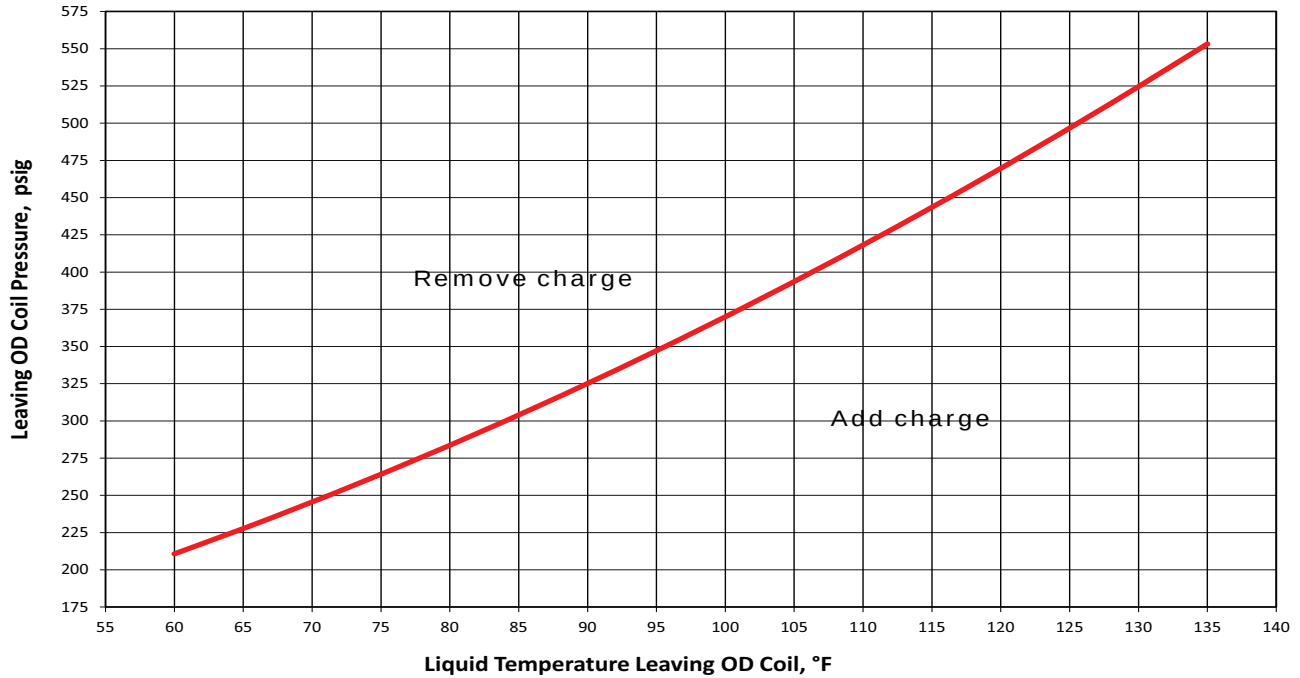
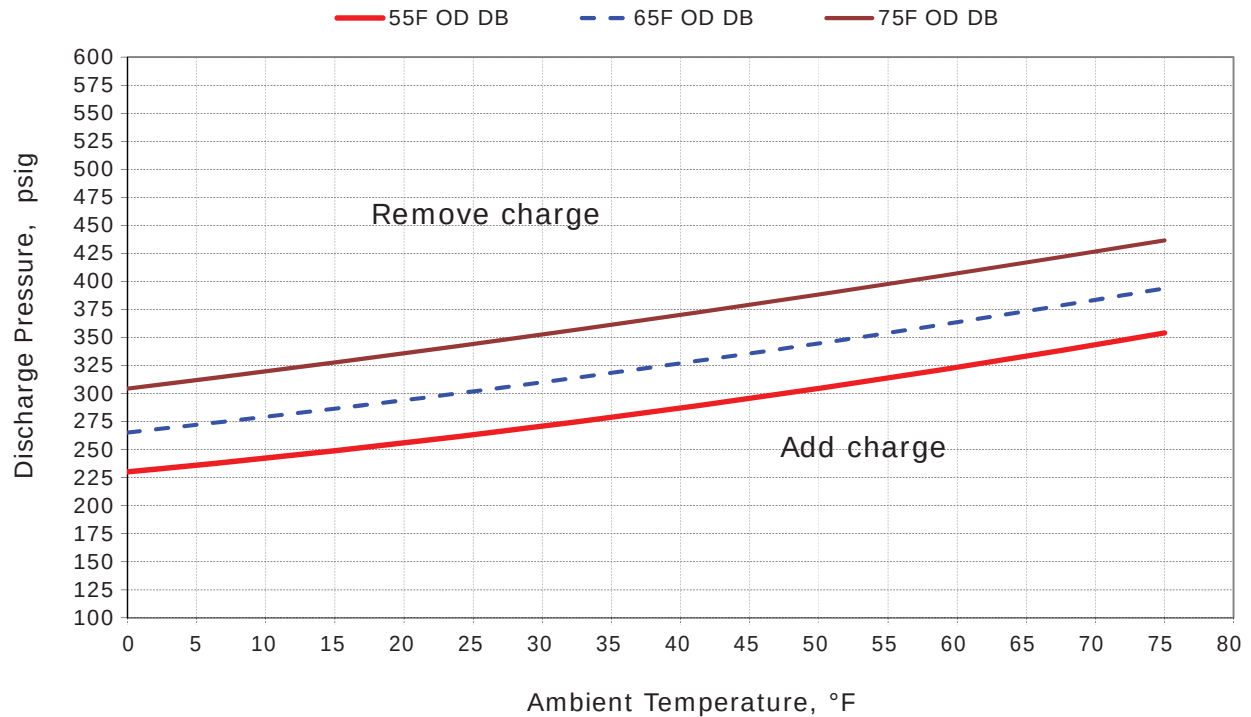


Figure 40. WSC060H3,4,W subcooling charging chart - heating



Subcooling Charging Charts

Figure 41. W/DHC036H3,4,W high stage subcooling charging chart - cooling

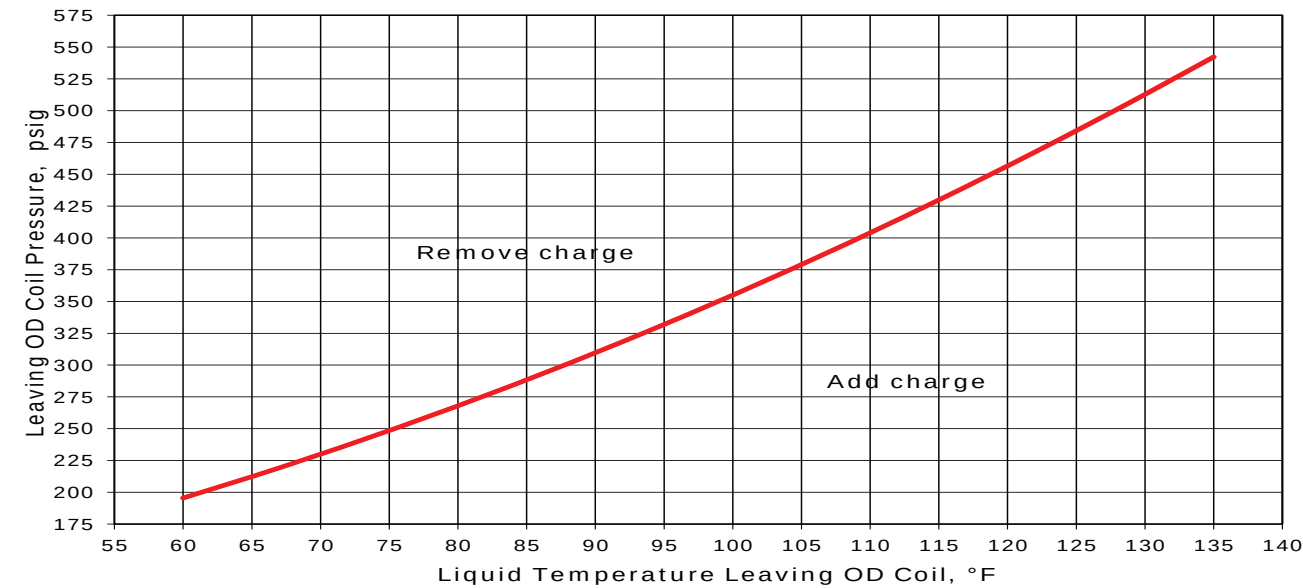


Figure 42. W/DHC036H3,4,W high stage subcooling charging chart - heating

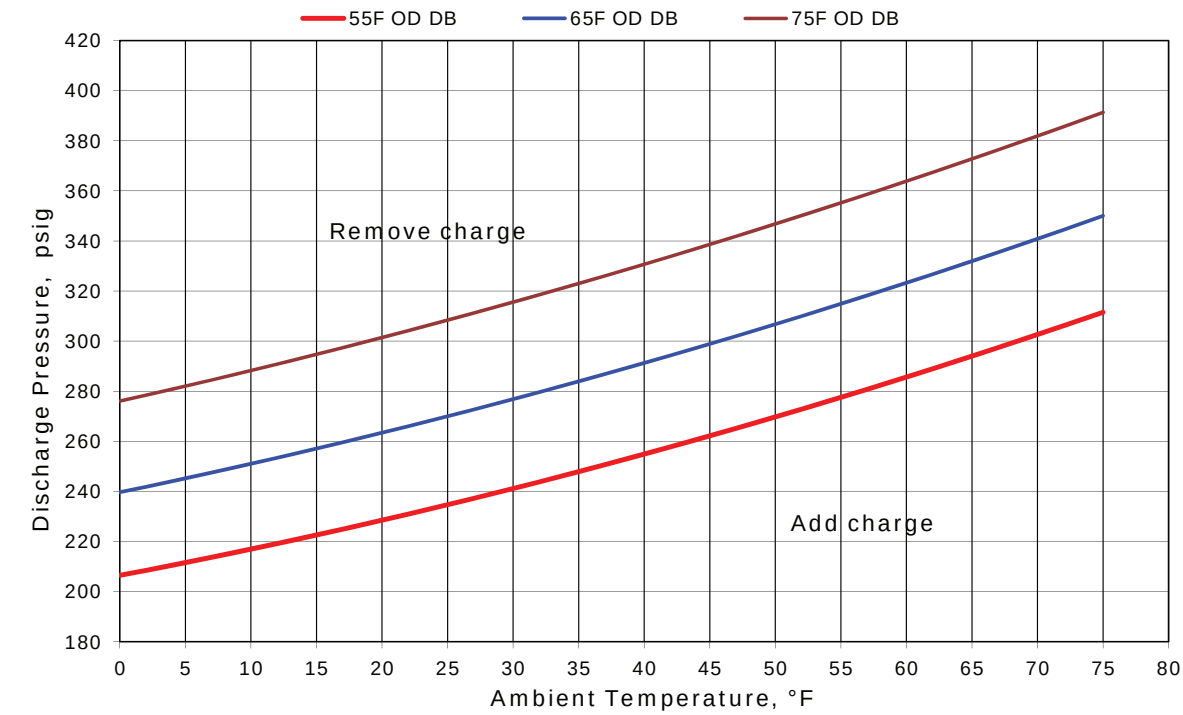


Figure 43. W/DHC048H3,4,W high stage subcooling charging chart - cooling

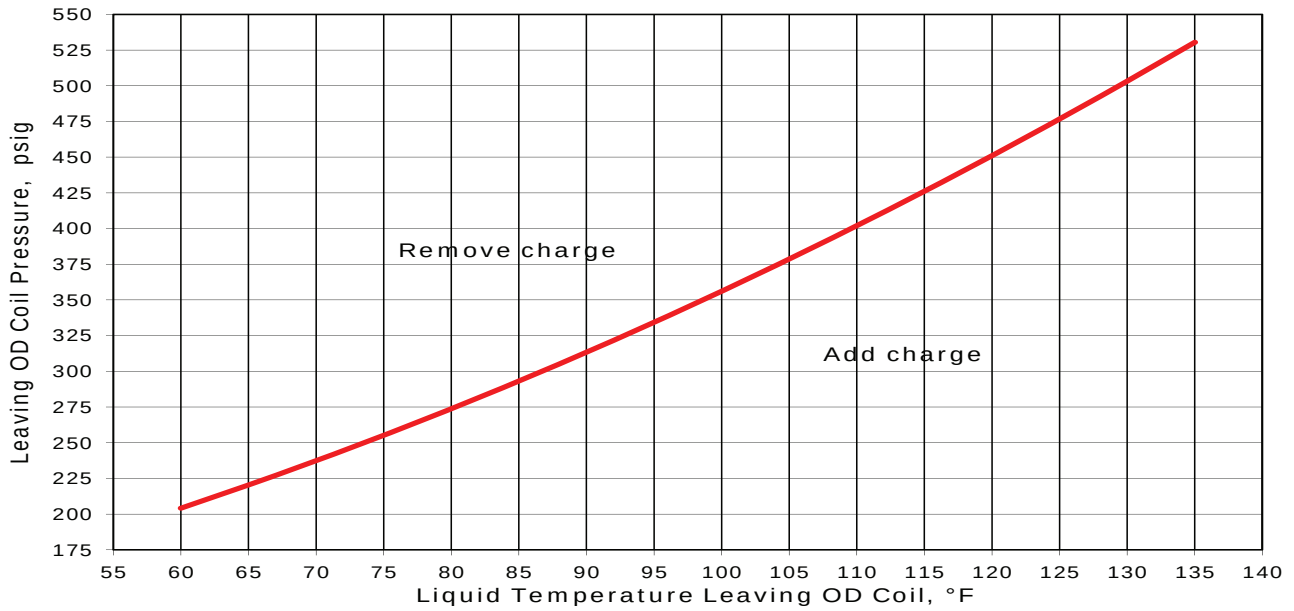
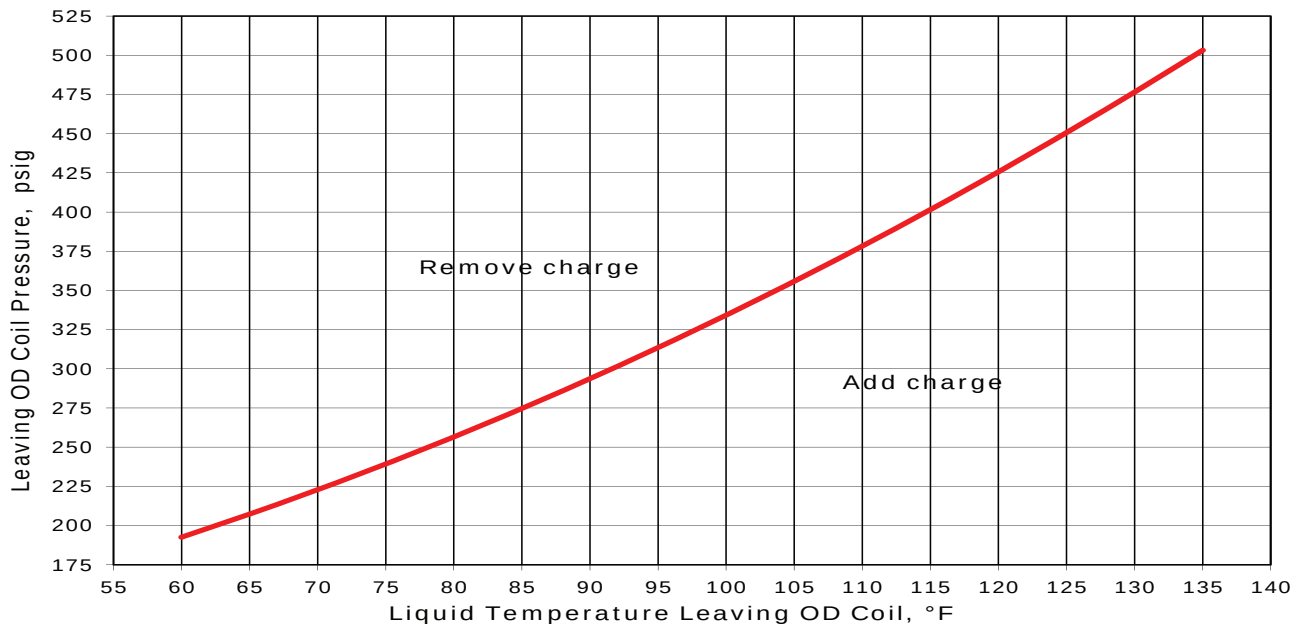


Figure 44. W/DHC048H3,4,W low stage subcooling charging chart - cooling



Subcooling Charging Charts

Figure 45. W/DHC048H3,4,W high stage subcooling charging chart - heating

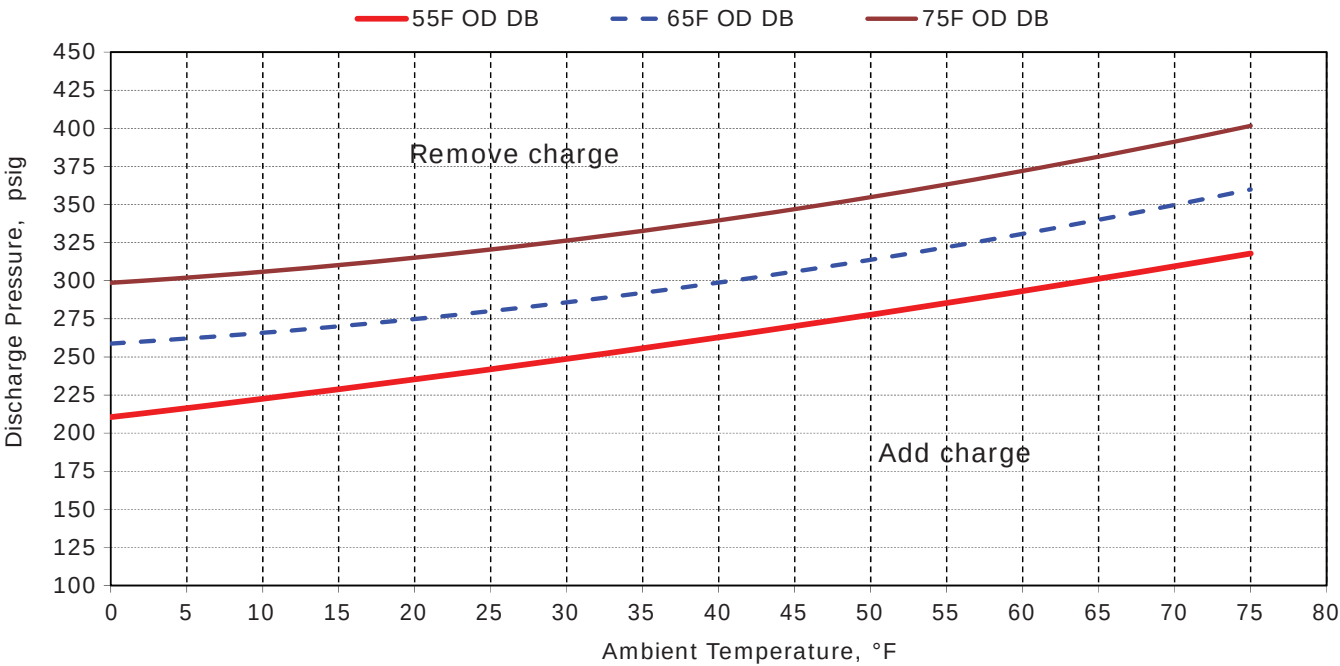


Figure 46. W/DHC048H3,4,W low stage subcooling charging chart - heating

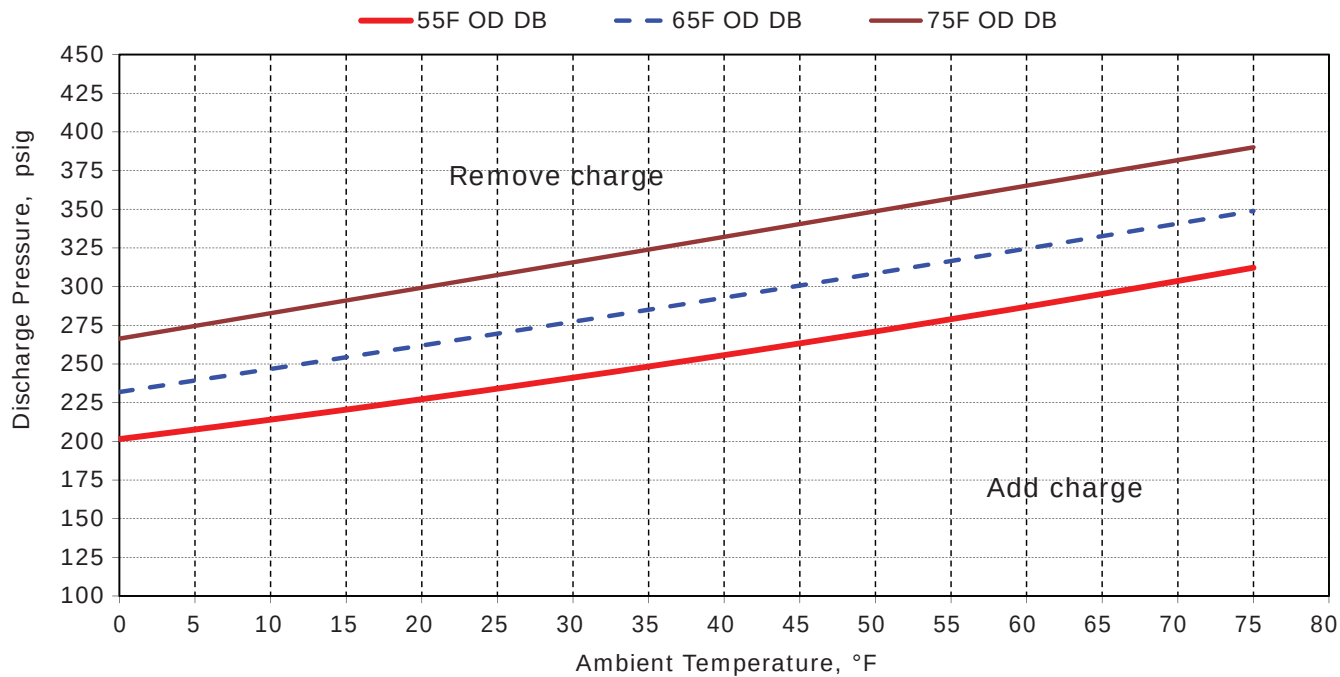


Figure 47. W/DHC060H3,4,W high stage subcooling charging chart - cooling

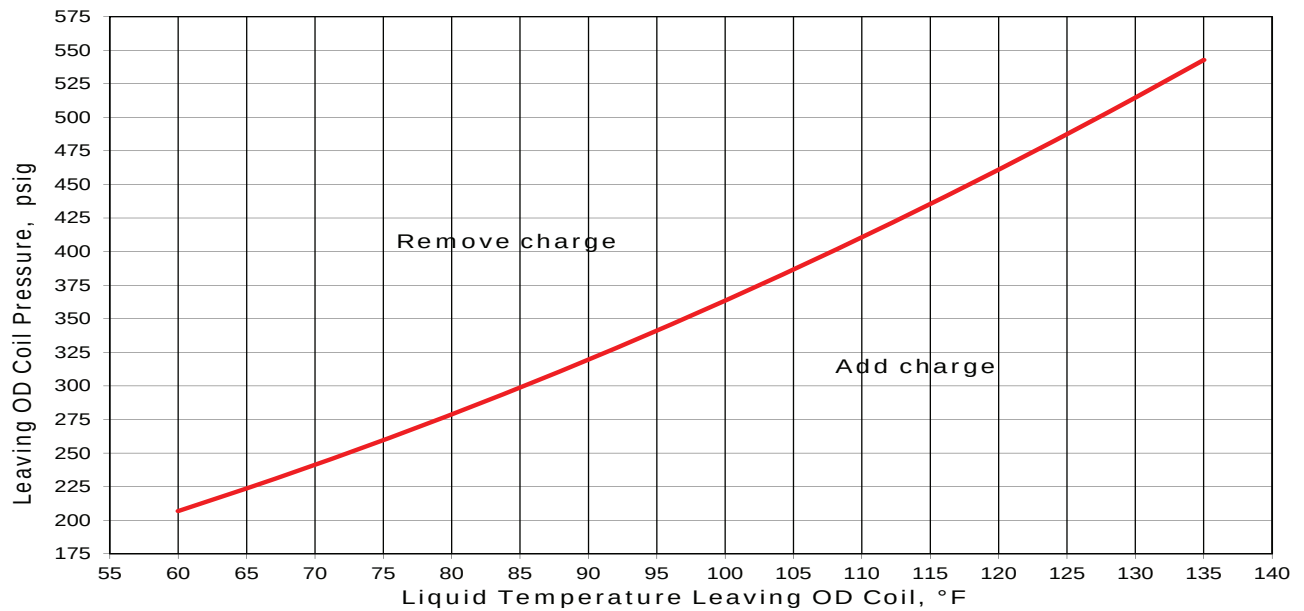
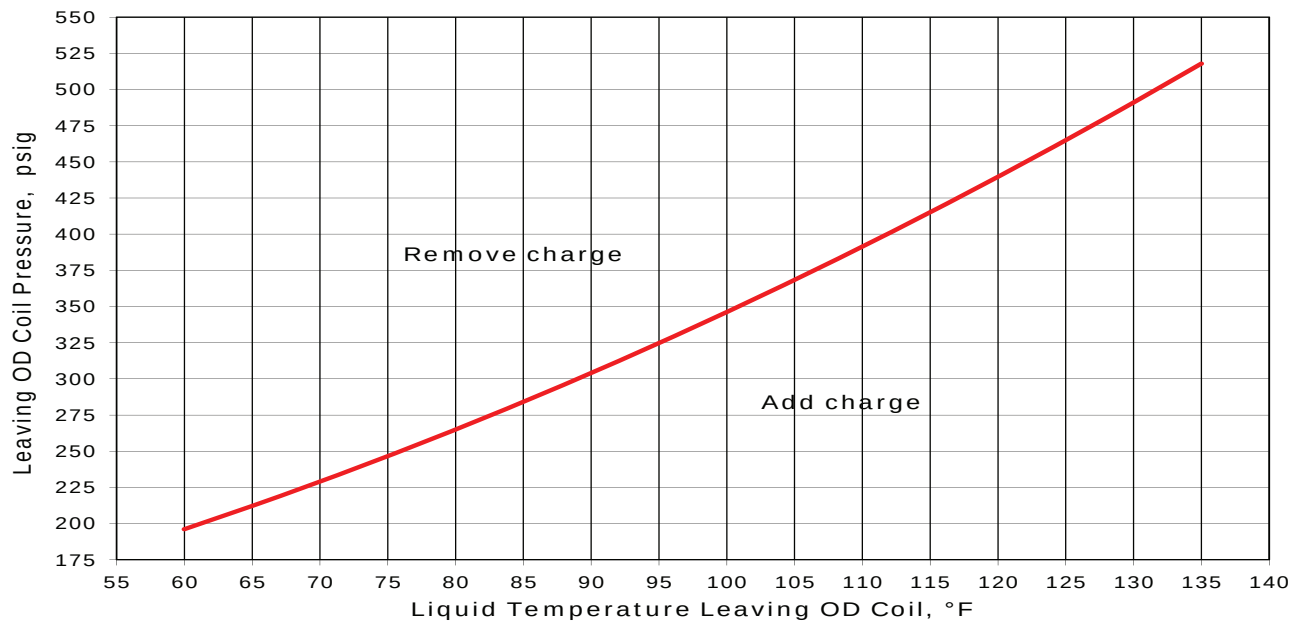


Figure 48. W/DHC060H3,4,W low stage subcooling charging chart - cooling



Subcooling Charging Charts

Figure 49. W/DHC060H3,4,W high stage subcooling charging chart - heating

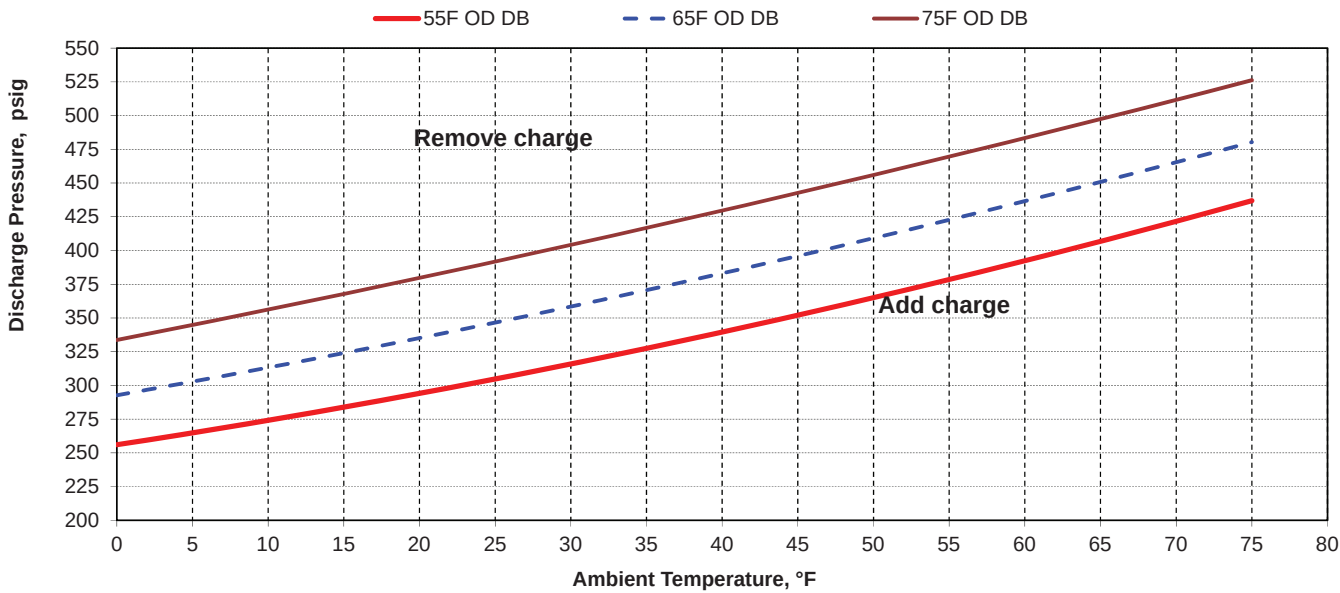
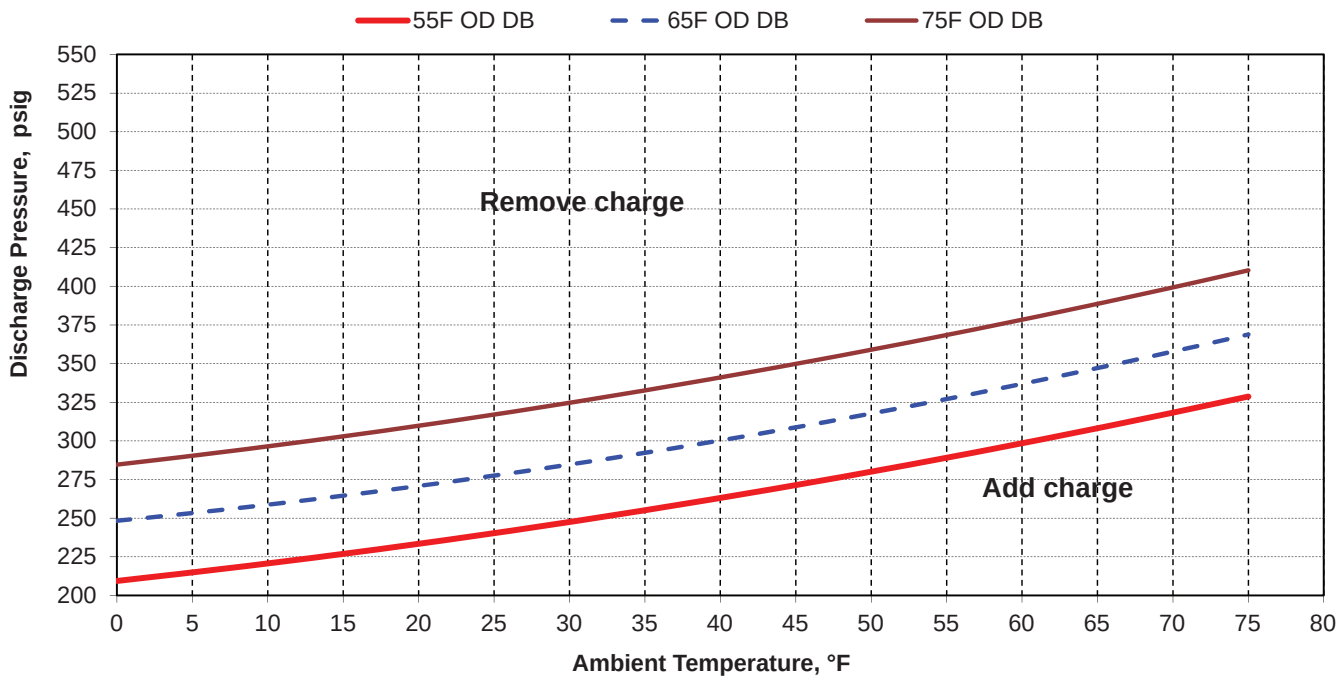


Figure 50. W/DHC060H3,4,W low stage subcooling charging chart - heating



Refrigerant Circuits

Figure 51. T/YSC036/048/060G refrigerant circuit

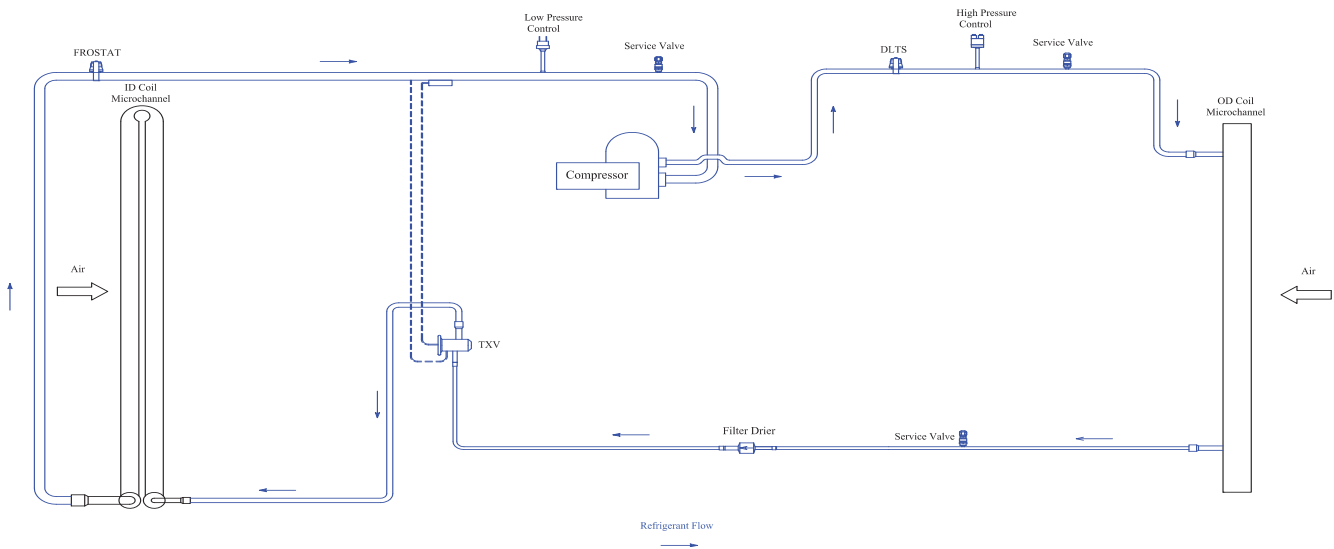
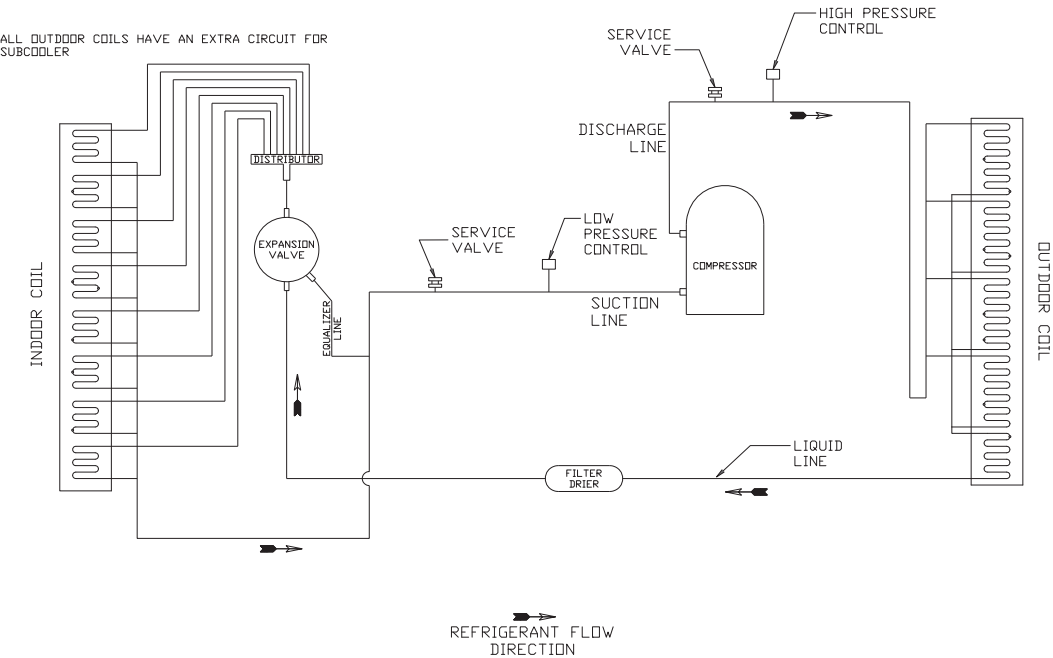


Figure 52. T/YHC036-060E, T/YHC048-060F refrigerant circuit

Unit	No. Circuits Indoor Coil	No. Circuits Outdoor Coil
T/YHC036E1,E3,E4	9	7
T/YHC048E3,E4	9	8
T/YHC060E3,E4	12	8
T/YHC048F1,F3,F4	9	Microchannel
T/YHC060F1,F3,F4	12	Microchannel



Refrigerant Circuits

Figure 53. WSC036H refrigerant circuit

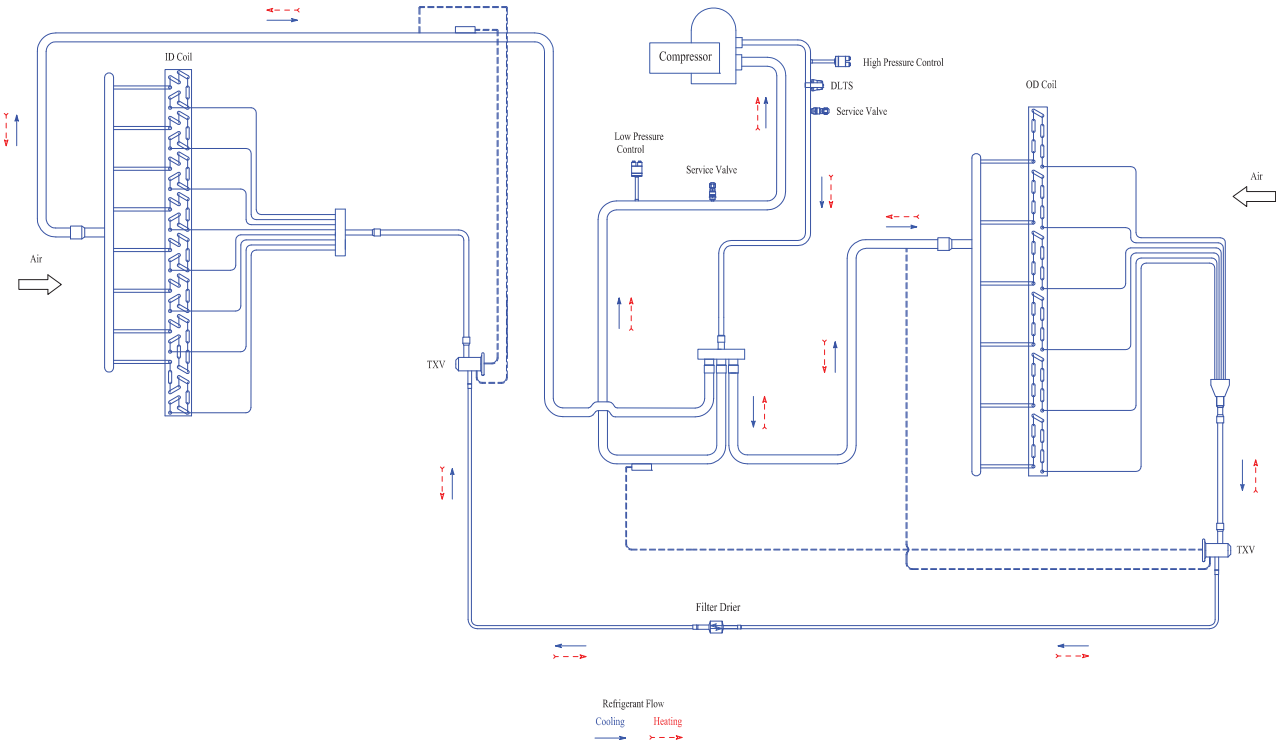


Figure 54. WSC048H refrigerant circuit

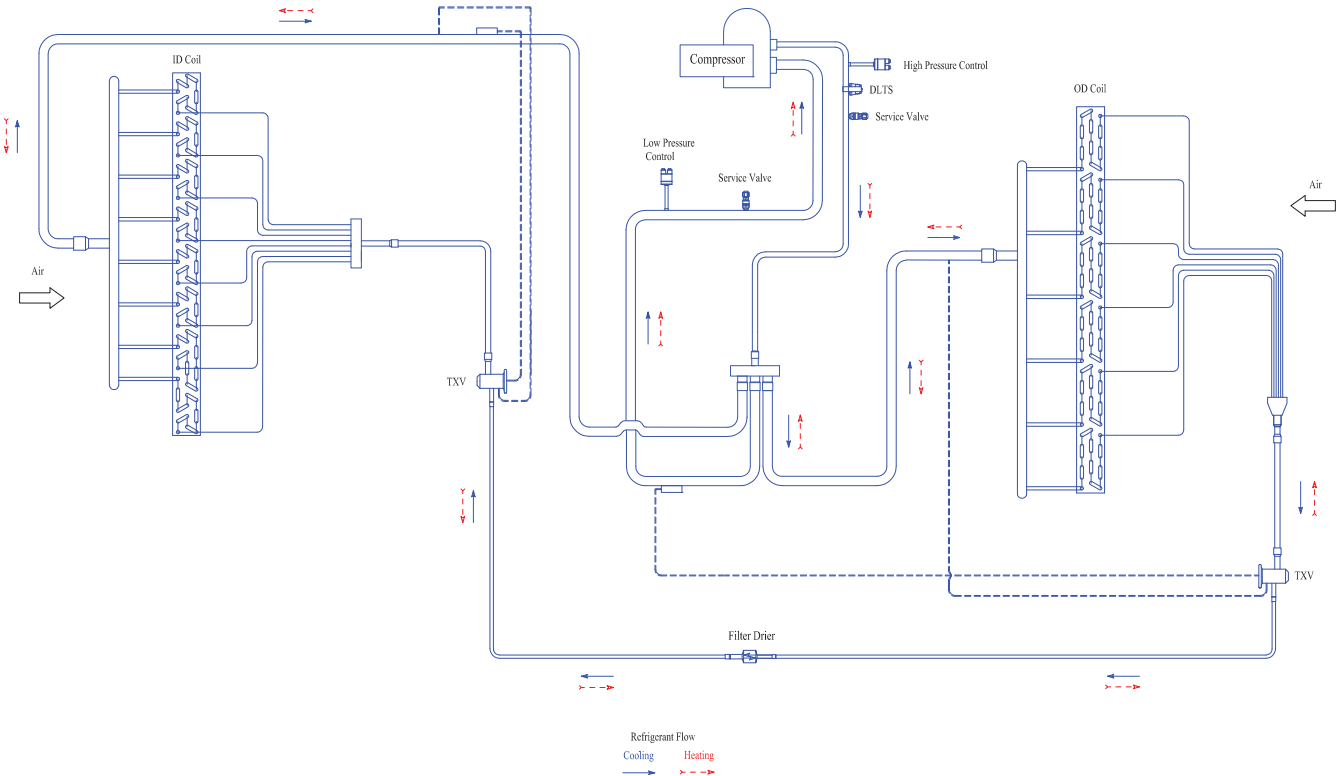


Figure 55. WSC060H refrigerant circuit

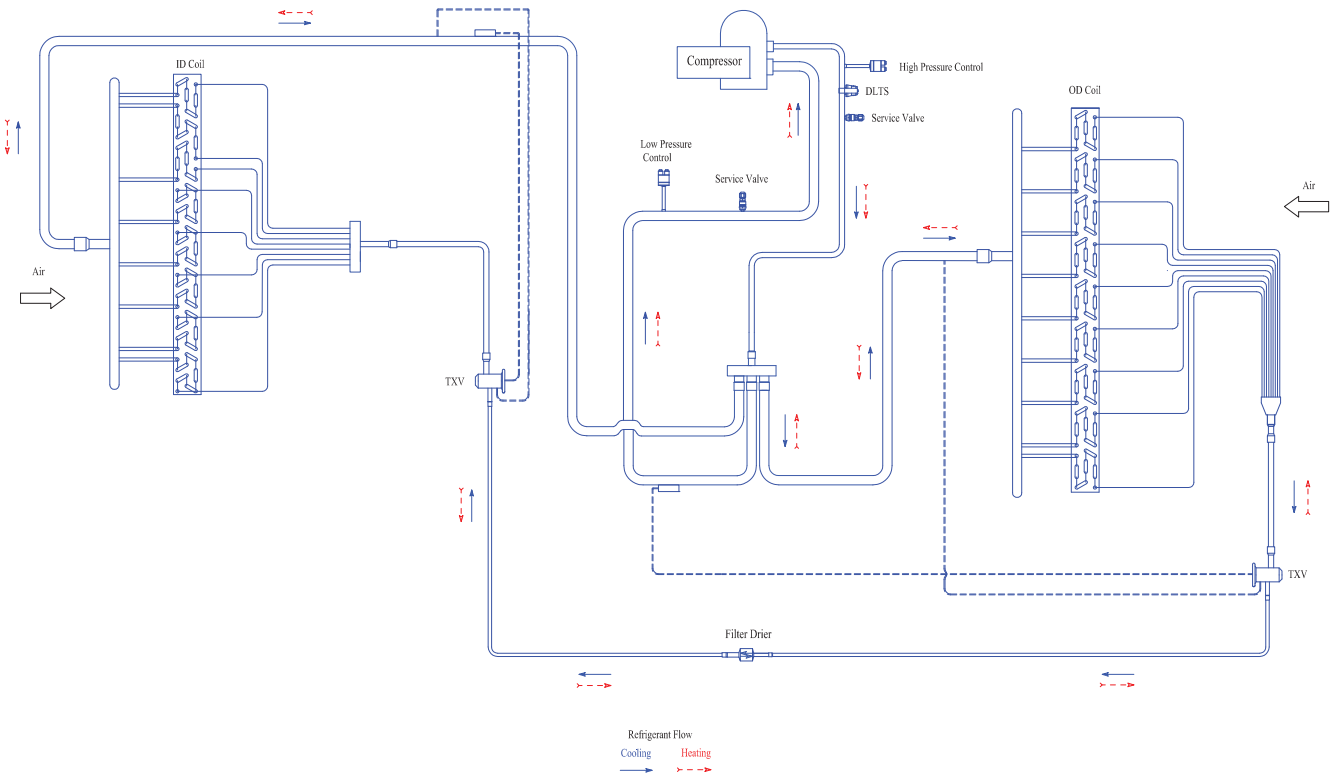
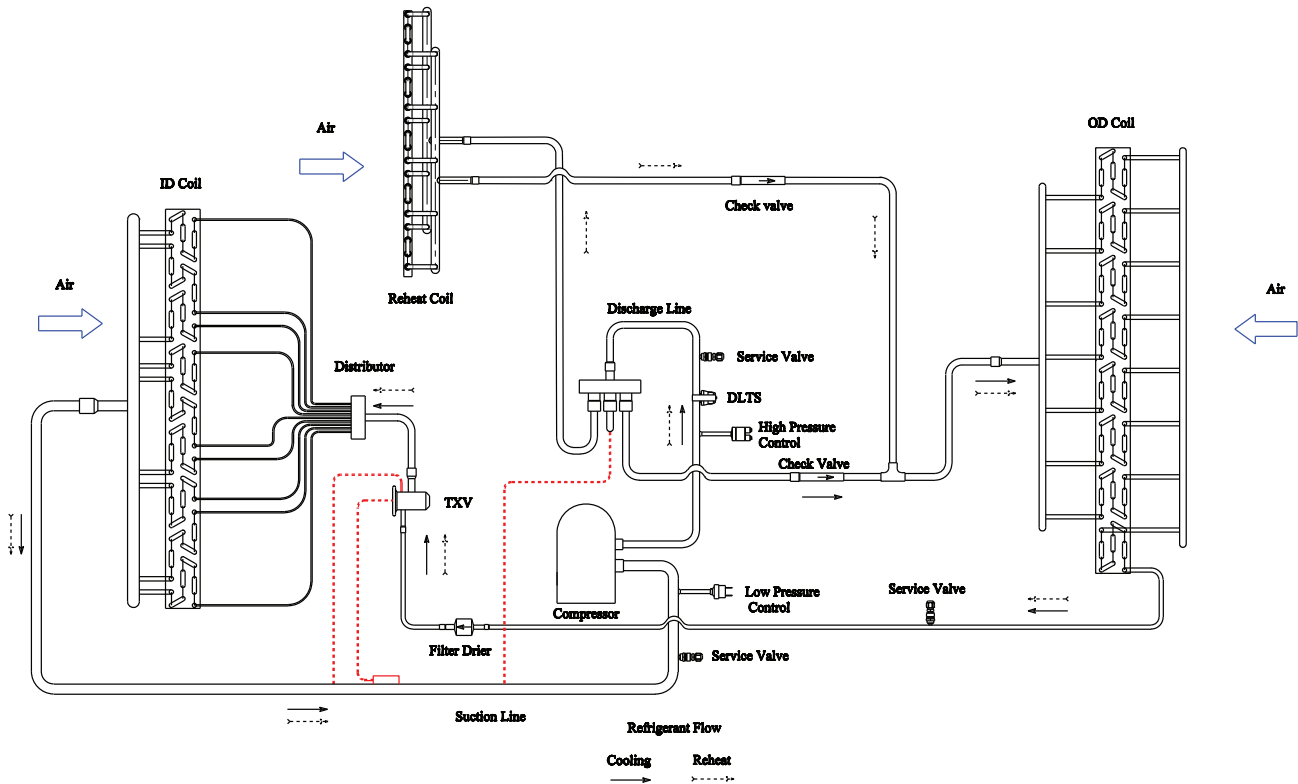


Figure 56. T/YHC036E - reheat refrigerant circuit



Refrigerant Circuits

Figure 57. T/YHC048E - reheat refrigerant circuit

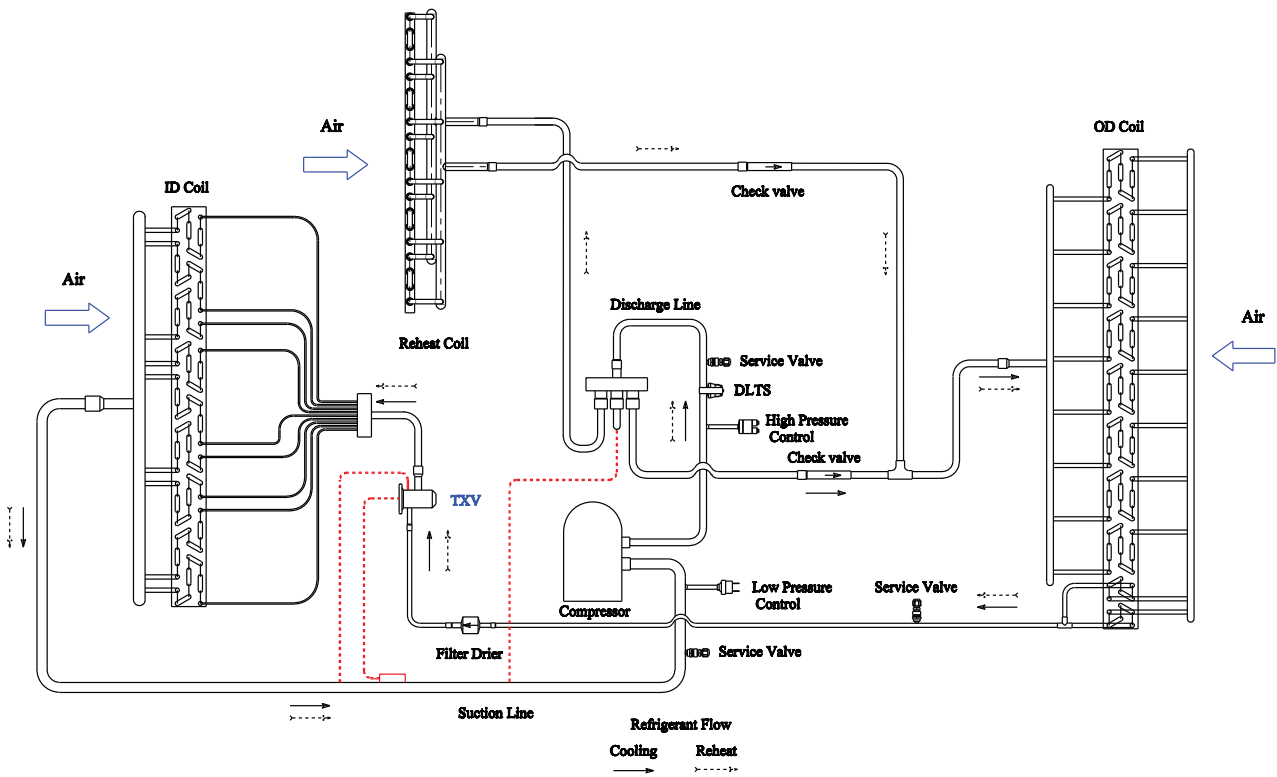


Figure 58. T/YHC060E - reheat refrigerant circuit

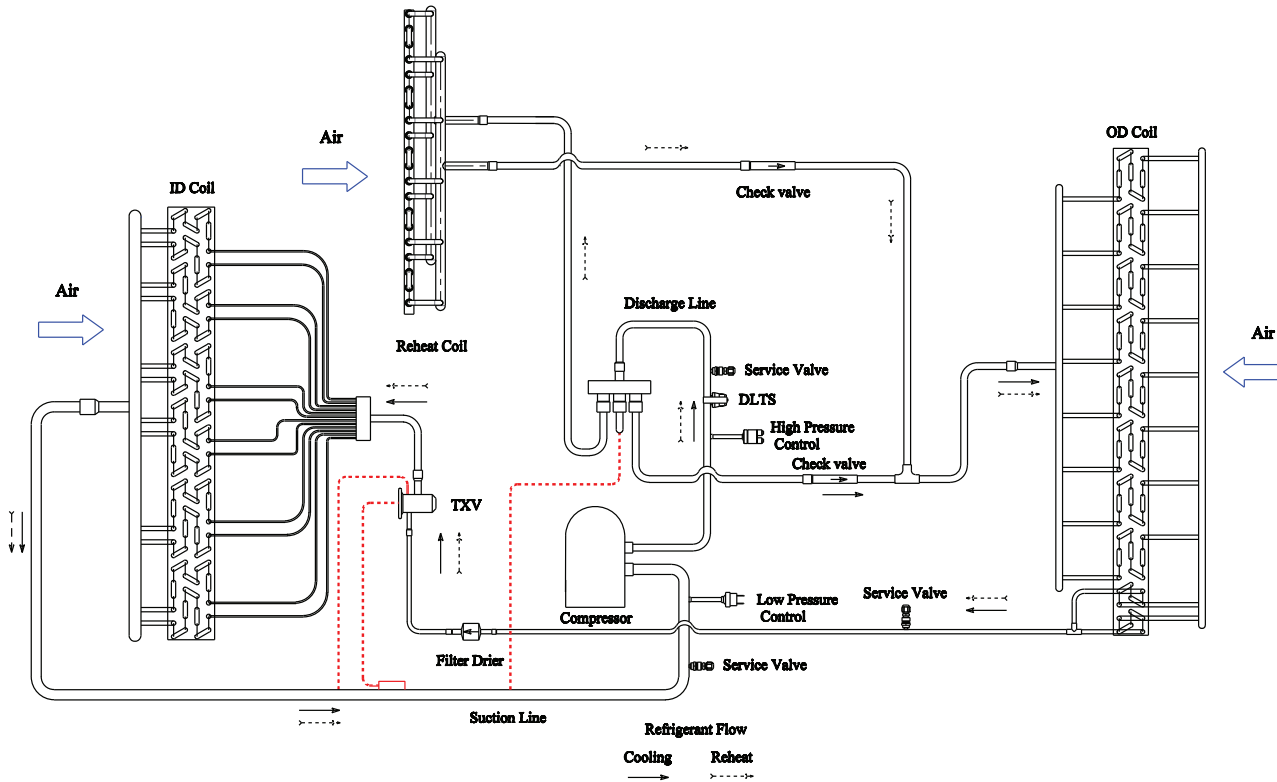


Figure 59. W/DHC036H - refrigerant circuit

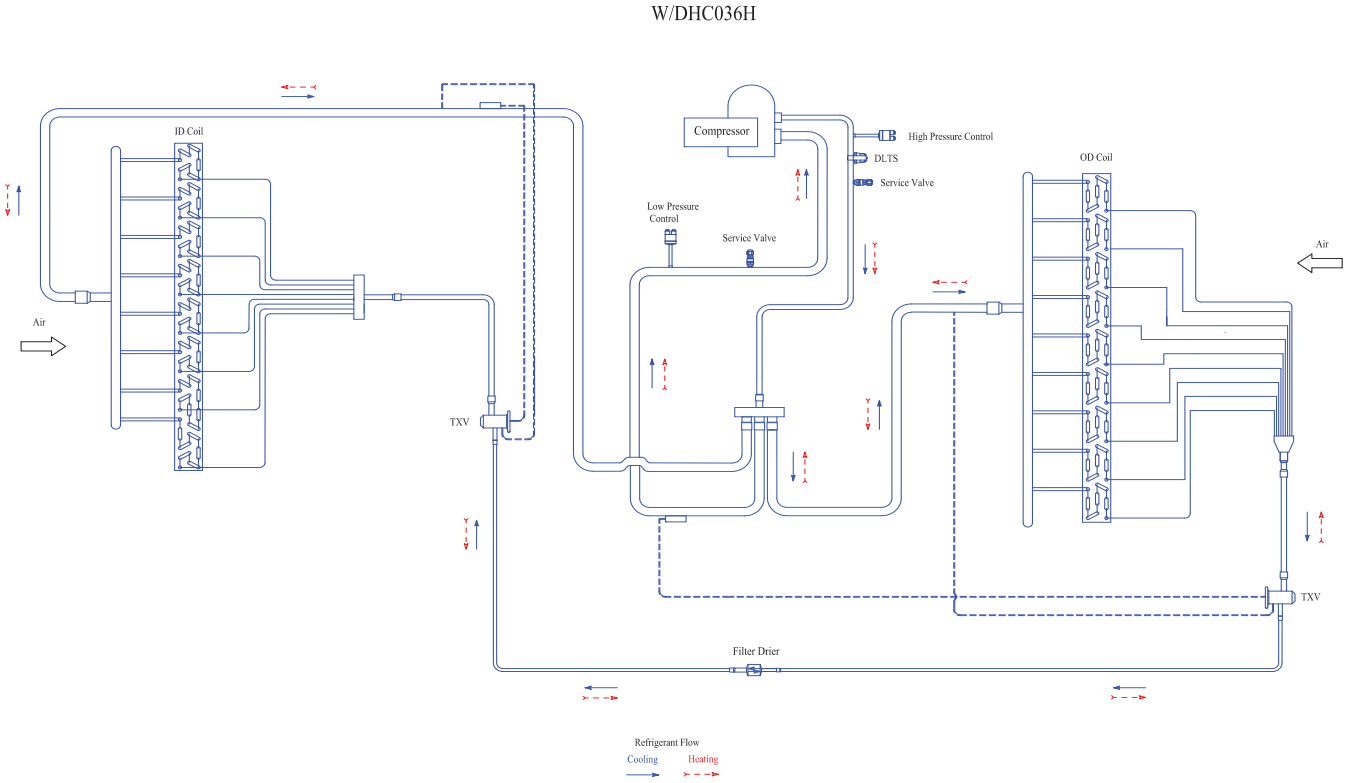
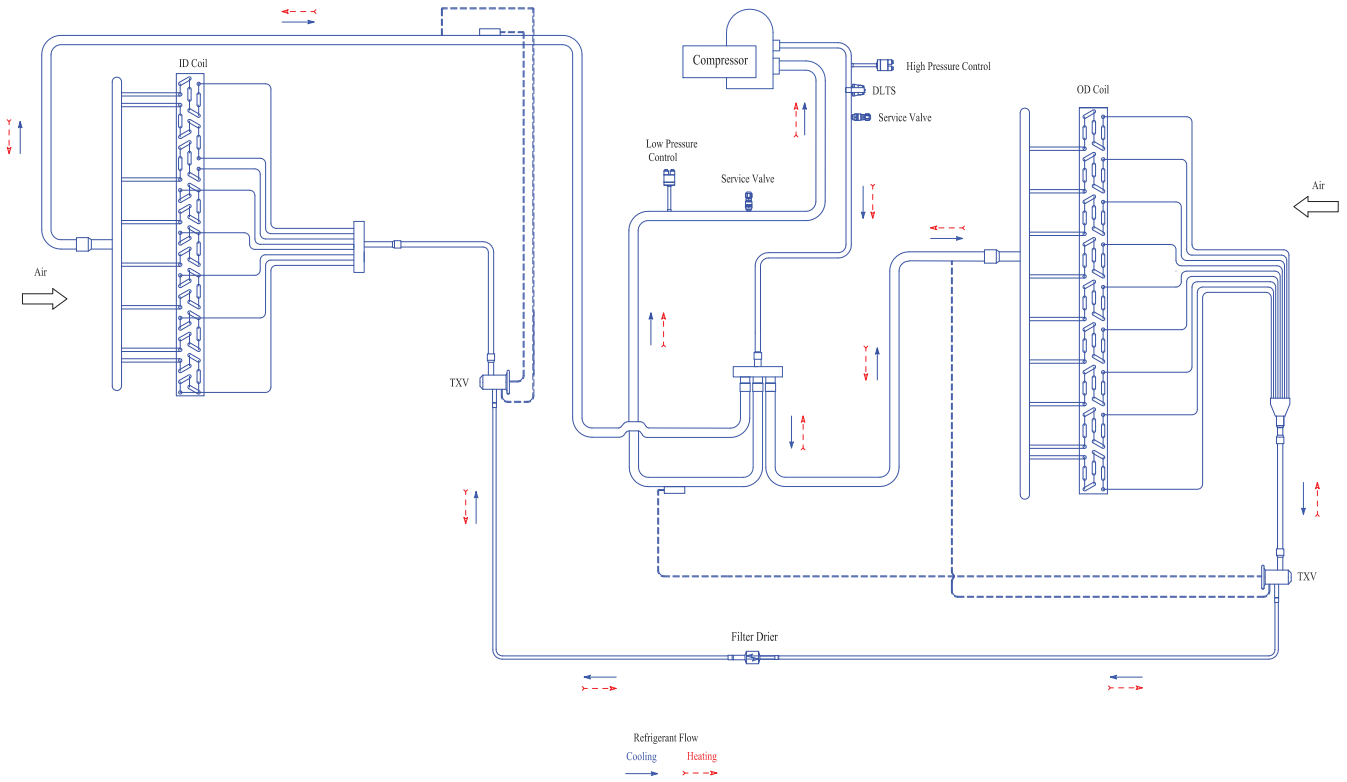


Figure 60. W/DHC048-060H - refrigerant circuit



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