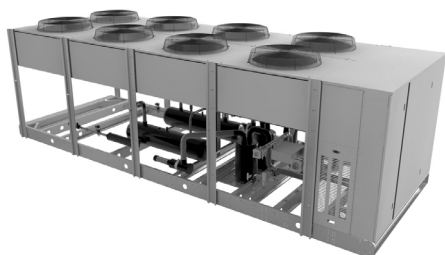


Condensing Units w/ Screw Compressors

Medium & High Temperature Models

Overview



Product Description

The screw compressor condensing unit is an important addition to the Heatcraft air-cooled condensing unit product family, featuring innovative compact screw compressors and advanced microprocessor controls. The unit is designed to provide increased system reliability, reduced installation and operation costs, as well as, improved product integrity in commercial and industrial refrigeration applications.

Increased Reliability

- Fewer moving parts result in improved durability
- Semi-hermetic motor design eliminates shaft seal and coupling concerns
- Integral oil system provides improved lubrication performance
- Factory-equipped microprocessor control system guarantees safe, reliable system performance
- Floating tube condenser coil design minimizes potential for refrigerant leaks

Reduced Costs of Ownership

- More capacity per compressor reduces number of compressors on large projects
- Reduced installation time and cost savings
- Built-in features include soft starting, slide valve unloading and digital controls for minimized operating costs

Improved Product Integrity

- Advanced digital controls and variable capacity capability maintain more precise temperature control
- Minimal temperature fluctuations result in maximum product integrity
- Advanced diagnostic, monitoring and data logging options allow for quick system recovery

Nomenclature

S	S	V	000B	M	6	D
Number of Circuits	Compressor Style	Airflow	Horsepower	Temperature Range	Refrigerant type	Voltage
S = Single D = Dual	S = Screw	V = Vertical	050B = 50 060B = 60 070B = 70 080B = 80 090B = 90 100B = 100 110B = 110 125B = 125 140B = 140	M = Medium H = High	6 = R-404A, R-507 7 = R-407C	D = 460/3/60 E = 575/3/60

Condensing Units w/ Screw Compressors

Medium & High Temperature Models

Configurable Models Pricing

Bohn Model	List Price by Motor Voltage (\$US)		Model Type	Notes
	460/3/60	575/3/60		
Medium Temperature				
SSV050BM*†	121,531	123,962	Single Compressor	
SSV060BM*†	146,073	148,997	Single Compressor	
SSV070BM*†	161,102	164,326	Single Compressor	
SSV080BM*†	174,470	177,963	Single Compressor	
SSV090BM*†	196,741	200,678	Single Compressor	
SSV100BM7†	213,651	217,924	Single Compressor	
SSV110BM*†	230,560	235,172	Single Compressor	
SSV125BM*†	250,228	255,235	Single Compressor	
SSV140BM*†	272,520	277,972	Single Compressor	
DSV100BM*†	243,061	247,924	Dual Compressor	
DSV120BM*†	292,144	297,988	Dual Compressor	
DSV140BM*†	322,203	328,652	Dual Compressor	
High Temperature				
SSV050BH7†	144,091	147,957	Single Compressor	
SSV060BH7†	173,442	176,913	Single Compressor	
SSV070BH7†	193,431	197,303	Single Compressor	
SSV080BH7†	211,171	215,397	Single Compressor	
SSV090BH7†	227,164	231,712	Single Compressor	
SSV100BH7†	257,340	262,487	Single Compressor	

Notes:

† = Voltage Code (D = 475/3/60, E = 575/3/60)

* = Refrigerant Type (6 = R-404A, 7 = R-407C)

Condensing Units w/ Screw Compressors

Medium & High Temperature Models

Factory-Installed Options - Medium Temperature

Need Factory-Installed Options?

- Make sure you have selected a configurable model. When ordering, remember to specify the option codes and list price adders for each selected option.
- Can't Find Something? Other options and accessories might be available on a custom order basis. Please contact your local Sales Representative or Account Engineer for assistance.

Option Code	Option Description	List Price by Model Number (\$US)											
		SSV050BM*†	SSV060BM*†	SSV070BM*†	SSV080BM*†	SSV090BM*†	SSV100BM7†	SSV110BM*†	SSV125BM*†	SSV140BM*†	DSV100BM*†	DSV120BM*†	DSV140BM*†
Coil Options													
CS.CPR	Copper Fin Coil	Call Factory											
CS.BRZ	Bronz-Glow Coil	Call Factory											
CS.PRO	Coated Fin Coil	4,528	5,660	6,792	8,079	8,541	10,249	12,788	13,663	17,516	10,249	12,788	17,516
Mechanical Options													
REC.001	Low Ambient Kit	2,688	2,688	2,688	3,530	3,530	3,530	4,374	4,374	4,374	5,376	5,376	5,376
SUC.005	Replaceable Core Suction-line Filter	2,270	2,270	3,629	3,629	3,629	3,629	3,629	7,256	7,256	4,538	4,538	7,256
SUC.007	Suction Accumulator	4,231	4,231	7,713	7,713	7,713	7,713	13,256	13,256	13,256	8,463	8,463	15,426
Electrical Options													
MS.001	Variable Speed EC Motor	34,880	52,416	52,416	52,416	69,952	69,952	69,952	87,198	87,198	69,952	87,198	87,198

Notes:

† = Voltage Code (D = 475/3/60, E = 575/3/60)

* = Refrigerant Type (6 = R-404A, 7 = R-407C)

Condensing Units w/ Screw Compressors

Medium & High Temperature Models

Factory-Installed Options - High Temperature

Need Factory-Installed Options?

- Make sure you have selected a configurable model. When ordering, remember to specify the option codes and list price adders for each selected option.
- Can't Find Something? Other options and accessories might be available on a custom order basis. Please contact your local Sales Representative or Account Engineer for assistance.

Option Code	Option Description	List Price by Model Number (\$US)					
		SSV050BH7†	SSV060BH7†	SSV070BH7†	SSV080BH7†	SSV090BH7†	SSV100BH7†
Coil Options							
CS.CPR	Copper Fin Coil	Call Factory					
CS.BRZ	Bronz-Glow Coil	Call Factory					
CS.PRO	Coated Fin Coil	5,660	11,957	13,731	15,950	19,896	23,881
Mechanical Options							
REC.001	Low Ambient Kit	2,688	3,530	3,530	4,374	4,374	4,374
SUC.005	Replaceable Core Suction-line Filter	2,270	2,270	3,629	3,629	3,629	3,629
SUC.007	Suction Accumulator	4,231	4,231	7,713	7,713	7,713	7,713
Electrical Options							
MS.001	Variable Speed EC Motor	52,416	69,952	67,586	87,198	87,198	104,445

Notes:

† = Voltage Code (D = 475/3/60, E = 575/3/60)

Condensing Units w/ Screw Compressors

Medium & High Temperature Models

Factory-Installed Electric Defrost Options

Need an electric defrost kit?

- Make sure you have selected a configurable model. When ordering, remember to specify the option codes and list price adders for each selected option.
- Electric defrost kits and components are available to be factory mounted in the electrical box of indoor or outdoor condensing units used in medium/low temp applications with electric defrost evaporators.

Option Code	Description	Models Used On	Notes	List Price Adder (\$US)
DFT.052	Electric Defrost Kit - 2 Htr Cont	All Single Compressor Screw Condensing Units	Includes (1) evaporator fan contactor and (2) defrost heater contactor with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	3,659
DFT.053	Electric Defrost Kit - 3 Htr Cont	All Single Compressor Screw Condensing Units	Includes (1) evaporator fan contactor and (3) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	4,542
DFT.054	Electric Defrost Kit - 4 Htr Cont	All Single Compressor Screw Condensing Units	Includes (1) evaporator fan contactor and (4) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	5,427
DFT.055	Electric Defrost Kit - 5 Htr Cont	All Single Compressor Screw Condensing Units	Includes (1) evaporator fan contactor and (5) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	7,255
DFT.056	Electric Defrost Kit - 6 Htr Cont	All Screw Condensing Units	Includes (1) evaporator fan contactor and (6) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40Amp max load per evaporator fan contactor.	9,085
DFT.064	Electric Defrost Kit - 2 fan 8 Htr Cont	All Dual Compressor Screw Condensing Units	Includes (2) evaporator fan contactors and (8) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	10,854
DFT.065	Electric Defrost Kit - 2 Fan 10 Htr Cont	All Dual Compressor Screw Condensing Units	Includes (2) evaporator fan contactors and (10) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	14,511
DFT.066	Electric Defrost Kit - 2 Fan 12 Htr Cont	All Dual Compressor Screw Condensing Units	Includes (2) evaporator fan contactors and (12) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	18,170

Condensing Units w/ Screw Compressors

Low Temperature Models

Overview



Product Description

The Low Temperature Condensing Units with Screw Compressors are designed to meet the needs of demanding commercial and industrial refrigeration applications, including Food Processing and Cold Storage Warehousing. The units are engineered to be flexible in custom design and constructed to meet the requirements of refrigeration contractors, consulting engineers and facility owners/operators.

Certifications



Cabinet & Construction

- Painted steel cabinet for superior strength and corrosion resistance
- Welded frame on all models for a robust and rigid product base
- All units feature the Floating Tube coil which eliminates tube sheet leaks
- Floating Tube coil design is featured on both oil-cooler and condenser

Serviceability

- Manual pumpdown switch on all units
- Convenient access panels to easily service internal components
- Replaceable core liquid-line filter
- Large electrical panels organized for maximum efficiency and to facilitate ease of access

Components

Compressor

- Low Temperature Screw Compressors offer 50%, 75% and 100% steps of capacity. Resulting in an optimal cooling solution for large capacity applications of all types.
- Compressors are rated for use with multiple refrigerants (R-404A, R-507A, R-407A, R-407F, R-448A & R-449A), allowing for flexibility
- Receivers are sized for sufficient pumpdown capacity of flood charges and include inlet and outlet service valves

Oil Cooling

- All units are engineered with dedicated oil-coolers to match the requirements of your specific application
- Three-way mixing valve maintains oil return temperature.

Motors

- Thermally protected, permanently lubricated ball bearing condenser and oil-cooler fan motors

Controls

- System 450 controls provide reliable on/off controls and reduce installation time through a user-friendly interface which allows for ease of adjustment

Nomenclature

S	S	V	060B	L	6	D
Model	Compressor Style	Airflow	HP	Operating Range	Refrigerant	Voltage
S = Single D = Dual	S = Screw	V = Vertical	060B = 60 070B = 70 080B = 80 100B = 100 120B = 120 140B = 140	L = Low	6 = R-404A R-507A R-407A R-407F R-448A R-449A	D = 460/3/60 E = 575/3/60

Condensing Units w/ Screw Compressors

Low Temperature Models

Configurable Models Pricing

Model	List Price by Motor Voltage (\$US)		Model Type	Notes
	460/3/60	575/3/60		
Low Temperature Models				
SSV060BL6*	236,964	241,706	Single Compressor	
SSV070BL6*	259,171	264,355	Single Compressor	
DSV080BL6*	344,166	351,050	Dual Compressor	
DSV100BL6*	403,102	411,164	Dual Compressor	
DSV120BL6*	466,947	476,285	Dual Compressor	
DSV140BL6*	499,708	509,702	Dual Compressor	

* = Voltage Code

Low Temperature Models

Factory-Installed Options

Need Factory-Installed Options?

- Make sure you have selected a configurable model. When ordering, remember to specify the option codes and list price adders for each selected option.
- Can't Find Something? Other options and accessories might be available on a custom order basis. Please contact your local Sales Representative or Account Engineer for assistance.

Option Code	Option Description	List Price by Model Number (\$US)						Notes
		SSV060BL6*	SSV070BL6*	DSV080BL6*	DSV100BL6*	DSV120BL6*	DSV140BL6*	
Coil Options								
CS.PRO	Coated Fin Coil	9,031	9,031	12,645	14,057	15,470	18,316	
CS.CPR	Copper Fin Coil	Call Factory						
CS.BRZ	Bronz-Glow Coil	Call Factory						
Cabinet Options								
	Aluminum Cabinet	No Charge						
	Un-Painted Galvanized Cabinent	(899)	(899)	(1,118)	(1,266)	(1,595)	(1,815)	
Mechanical Options								
REC.001	Low Ambient Kit	2,688	2,688	5,376	5,376	5,376	5,376	
SUC.005	Replaceable Core Suction Line Filter	3,629	3,629	4,538	4,538	4,538	4,538	
Electrical Options								
	Compressor Circuit Breaker	No Charge						Replaces Electronic Overload Relay
VFD.001	Compressor VFD	Call Factory						
MS.002	Variable Speed EC Motors - Rail-Mount	50,348	50,348	61,585	73,281	73,646	85,661	Condenser & Oil-Cooler Fans. Only available on 475v
MS.001	Variable Speed EC Motors - Venturi-Mount	66,771	66,771	88,113	104,893	105,415	122,578	Condenser & Oil-Cooler Fans. Only available on 475v
MCS.001	MCS Magnum Controller - No Defrost	3,281	3,281	8,490	8,490	12,011	12,011	
MCS.002	MCS Magnum Controller - Defrost	7,191	7,191	10,634	7,191	14,714	14,714	Must be paired with an Electric Defrost Kit

* = Voltage Code

Condensing Units w/ Screw Compressors

Low Temperature Models

Factory-Installed Electric Defrost Options

Need an electric defrost kit?

- Make sure you have selected a configurable model. When ordering, remember to specify the option codes and list price adders for each selected option.
- Electric defrost kits and components are available to be factory mounted in the electrical box of indoor or outdoor condensing units used in medium/low temp applications with electric defrost evaporators.

Option Code	Description	Models Used On	Notes	List Price Adder (\$US)
DFT.052	Electric Defrost Kit - 2 Htr Cont	All Single Compressor Screw Condensing Units	Includes (1) evaporator fan contactor and (2) defrost heater contactor with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	3,659
DFT.053	Electric Defrost Kit - 3 Htr Cont	All Single Compressor Screw Condensing Units	Includes (1) evaporator fan contactor and (3) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	4,542
DFT.054	Electric Defrost Kit - 4 Htr Cont	All Single Compressor Screw Condensing Units	Includes (1) evaporator fan contactor and (4) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	5,427
DFT.055	Electric Defrost Kit - 5 Htr Cont	All Single Compressor Screw Condensing Units	Includes (1) evaporator fan contactor and (5) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	7,255
DFT.056	Electric Defrost Kit - 6 Htr Cont	All Screw Condensing Units	Includes (1) evaporator fan contactor and (6) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	9,085
DFT.064	Electric Defrost Kit - 2 Fan 8 Htr Cont	All Dual Compressor Screw Condensing Units	Includes (2) evaporator fan contactors and (8) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	10,854
DFT.065	Electric Defrost Kit - 2 Fan 10 Htr Cont	All Dual Compressor Screw Condensing Units	Includes (2) evaporator fan contactors and (10) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	14,511
DFT.066	Electric Defrost Kit - 2 Fan 12 Htr Cont	All Dual Compressor Screw Condensing Units	Includes (2) evaporator fan contactors and (12) defrost heater contactors with terminal strip. Kit includes evaporator fan and defrost heater fusing. 48 Amp max load per heater contactor. 40 Amp max load per evaporator fan contactor.	18,170