



RESIDENTIAL
TRILOGY® 47 (SV) VARIABLE CAPACITY SERIES
PRODUCT CATALOG

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60Hz - R-454B

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THE TRILOGY 47 (SV) VARIABLE CAPACITY SERIES

The Trilogy 47 (SV) Variable Capacity Series showcases the highest efficiency ratings, quiet operation, and application flexibility that is synonymous with ClimateMaster products. The Trilogy SV surpasses ASHRAE 90.1 efficiency standards and utilizes R-454B low Global Warming Potential (GWP) refrigerant, setting the highest standard for eco-friendly performance. The Trilogy SV is Energy Star certified due to its innovative and environmentally conscious design.

Available in three sizes, 0930, 1248, and 1872 (modulates between 9K-30K, 12K-48K, or 18K-72K Btuh) with multiple cabinet options (vertical upflow, vertical downflow, and horizontal). The Trilogy SV has an extended range refrigerant circuit, perfectly capable of ground-loop (geothermal) applications. The Trilogy SV is built around three variable-speed pillars—compressor, fan motor, and water pump—that work together to deliver a fully variable/modulating system. Set your desired temperature and the unit modulates to hold that temperature across the entire operating range.

Some of the features of the innovative Trilogy SV series include: ultra-efficient variable-speed compressors, EC constant volume fan motor, communicating microprocessor controls, painted galvanized steel cabinet construction, corrosive-resistant stainless steel drain pan, all-aluminum microchannel air coils, and acoustic type fiber insulation.

Recent EPA mandates require an industry transition to low-GWP refrigerants, such as R-454B which is a gas that is classified as having low-toxicity, low flammability rating. Due to these characteristics, R-454B systems charged with over 62 ounces of refrigerant must contain an integrated Refrigerant Detection System (RDS). In the unlikely event of a system-refrigerant leak, the RDS shuts down compressor operation and runs the unit blower motor to disperse any concentration of leaked refrigerant in compliance with the UL 60335-2-40 safety standard. For Trilogy SV products, the RDS is optional on all sizes.

ClimateMaster's double-isolation compressor mounting system makes the Trilogy SV one of the quietest units on the market. Compressors are mounted using specially engineered sound-tested EPDM grommets to a heavy gauge mounting plate, which is then isolated from the cabinet base with EPDM grommets to minimize vibration transmission and maximize sound attenuation. Additionally, because of the modulating compressors utilized in the SV, the compressors are soft-starting and eliminate light flicker. Multiple removable access panels and an easily accessible control box make installation and maintenance user friendly.

iGate® 2 technology provides technicians an interface into the operation of the system in real time without the need for hard tooling. On board advanced controls communicate the key operating system temperatures allowing technicians to startup, commission, and service equipment remotely by smart phone or website interface. Communication can also be established at the unit via a communicating thermostat or Wireless Service Tool. iGate 2 monitors current performance, facilitates system adjustments, and captures operating conditions at time of fault. Data and controls are presented in a user-friendly format for a convenient service experience.

vFlow® is ClimateMaster's variable water flow technology. vFlow represents a major advancement in water flow system management efficiency. vFlow not only builds major water circulation components into the unit for a clean installation, it also intelligently varies water flow to minimize pump energy consumption and improve system reliability.

The heart of vFlow is a variable-speed pump intelligently controlled with EXM Advanced Variable Capacity Controls. Water flow is automatically varied based on changes in unit capacity level and source water temperature to maintain optimum system performance. vFlow allows the use of direct return piping, while eliminating external two-way valves and automatic flow regulators, making vFlow systems inherently self-balancing.

vFlow systems provide reduced water pumping power compared to traditional fixed-speed pumping systems. They also protect the unit against extreme operating conditions, extending the life of the compressor. Since vFlow is built into the unit, it also saves on installation time and makes for a clean and compact installation. The Trilogy SV Series water-source heat pumps are designed to meet the challenges of today's HVAC demands with one of the most innovative products available on the market.

FEATURES

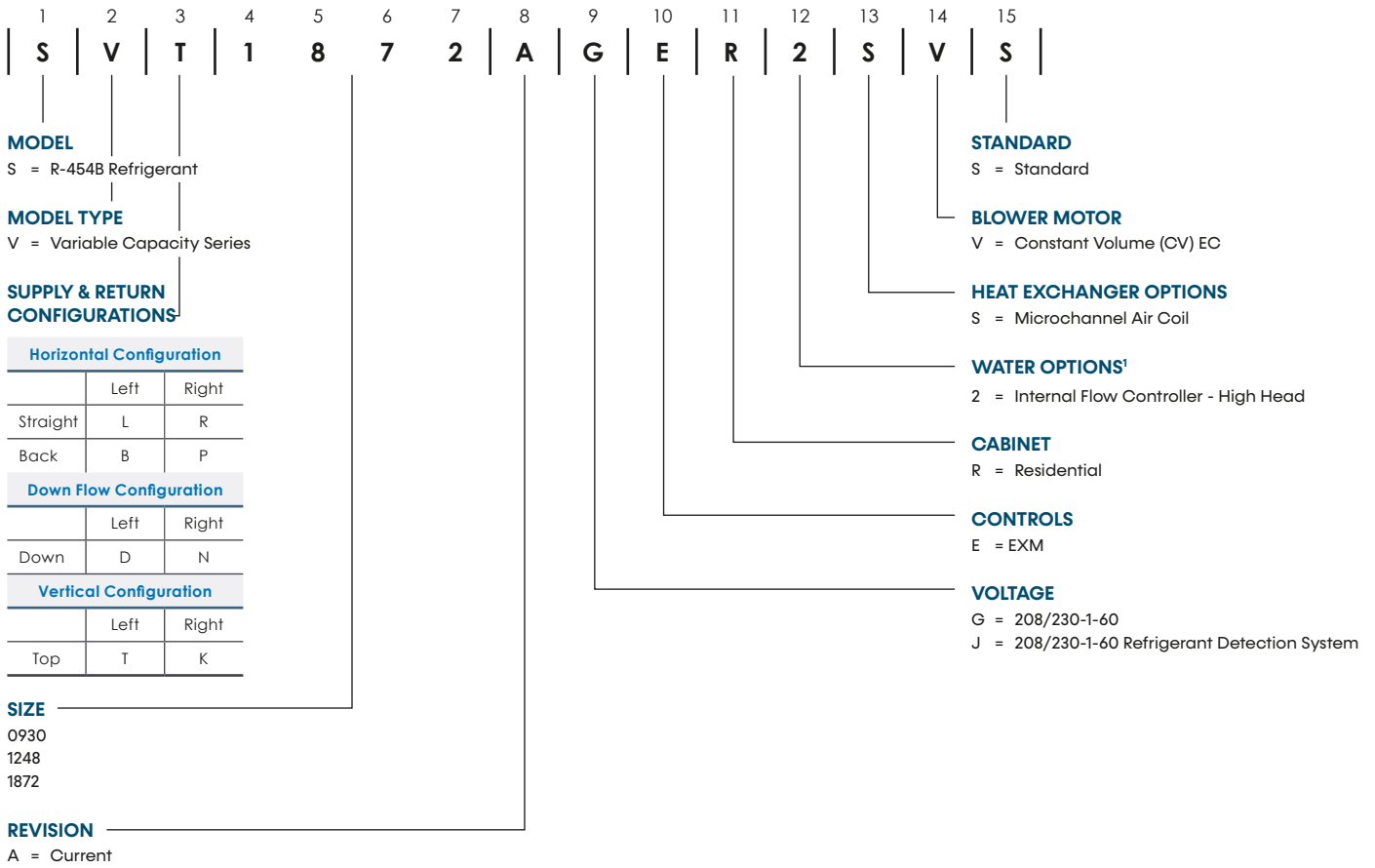
- Sizes 0930, 1248, and 1872 (modulates between 9K-30K, 12K-48K, or 18K-72K Btuh)
- Exceeds ASHRAE 90.1 efficiency standards
- Environmentally-friendly R-454B low-GWP refrigerant
- Refrigerant Detection System (RDS) (optional for all sizes)
- Brazed plate water-to-refrigerant heat exchangers
- Intelligent variable speed Constant Volume (CV) EC blower motors for precise airflow control and soft-start feature
- Rugged and highly efficient variable speed compressors provide ultra-high efficiencies and unsurpassed comfort
- vFlow unit-integrated variable-speed water pump for single-pipe systems
- Galvanized-steel cabinet construction with matte black polyester powder coated finish and stainless-steel access panels
- Sound-absorbing glass-fiber insulation
- Unique double-isolation compressor mounting with vibration isolation for quieter operation
- Insulated divider and separate compressor/air-handler compartments
- Electronic Expansion Valve (EEV) metering device
- Field-convertible supply-air arrangement (horizontal configurations only)
- Unit Performance Sentinel performance-monitoring system
- Easy-to-clean rust-prohibitive stainless-steel drain pans
- Easy-access control box
- EXM Advanced Variable Capacity Controls:
 - Multiple communication pathways for unit access and diagnosis
 - Cloud-based remote monitoring via iGate 2 Communicating (AWC) Thermostat
 - Connect directly to the system with the Wireless Service Tool
 - Provides real-time unit operating conditions
 - Reduces startup, commissioning, and service time by providing key system temperatures electronically
 - Captures operating conditions in the event of a safety shutdown
 - Full Unit Information and Advanced Diagnostics.
 - Refrigerant circuit:
 - Superheat, Subcool
 - Suction pressure/temperature, discharge pressure/temperature, refrigerant temperature at entering / leaving the source coil and air coil
 - Compressor speed
 - Electronic Expansion Valve operation
 - Water circuit / loop:
 - Entering/ Leaving water temperature
 - Water flow rate
 - Loop pressure
 - Internal Pump speed
 - Air section:
 - Airflow CFM and blower RPM
 - Leaving air temperature
- Eight standard safety features
- Anti-short cycle and over/under-voltage protection
- High-pressure, low-pressure, and condensate-overflow protection
- LED fault and status indication at controller
- Aluminum Microchannel air coils for added protection and improved efficiency
- Extended-range insulation for geothermal applications
- Return-air filter frames for 2-inch MERV 11 filter

ACCESSORIES

- iGate 2 Communicating (AWC) Thermostat with color touchscreen
- iGate 2 ClimaZone communicating zoning system
- Auxiliary electric heaters

Model Nomenclature

Models:
SV
0930-1872



NOTES:
1. Flow controller comes standard with variable speed pump with check valve, flushing valve, and expansion tank.

Ratings Data

AHRI/ASHRAE/ISO 13256-1

Models:
SV
0930-1872

ASHRAE/AHRI/ISO 13256-1 English (I-P) Units

Model	Capacity Modulation	Water Loop Heat Pump				Ground Loop Heat Pump			
		Cooling 86°F		Heating 68°F		Cooling Full Load 77°F Part Load 68°F		Heating Full Load 32°F Part Load 41°F	
		Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
SV 0930	Part	9,000	26.5	12,000	8.4	9,000	47.0	12,000	4.7
	Full	24,000	20.5	30,000	6.0	24,000	25.8	30,000	3.4
SV 1248	Part	15,500	23.0	15,000	8.5	13,500	42.0	15,000	4.8
	Full	36,000	22.0	48,000	6.8	36,000	27.0	48,000	3.5
SV 1872	Part	18,000	23.0	24,000	7.5	18,000	40.5	24,000	4.5
	Full	48,000	19.4	72,000	5.3	48,000	22.5	70,000	3.3

- Tested in Accordance with ISO 13265-1
- Ground Loop Heat Pump ratings based on 15% methanol antifreeze solution
- All ratings based upon operation at lower voltage of dual voltage rated models

AHRI/ASHRAE/ISO 13256-1 Metric (S-I) Units

Model	Capacity Modulation	Water Loop Heat Pump				Ground Loop Heat Pump			
		Cooling 30°C		Heating 20°C		Cooling Full Load 25°C Part Load 20°C		Heating Full Load 0°C Part Load 5°C	
		Capacity Watts	EER W/W	Capacity Watts	COP	Capacity Watts	EER W/W	Capacity Watts	COP
SV 0930	Part	2.6	7.8	3.5	8.4	2.6	13.8	3.5	4.7
	Full	7.0	6.0	8.8	6.0	7.0	7.6	8.8	3.4
SV 1248	Part	4.5	6.7	4.4	8.5	4.0	12.3	4.4	4.8
	Full	10.6	6.5	14.1	6.8	10.6	7.9	14.1	3.5
SV 1872	Part	5.3	6.7	7.0	7.5	5.3	11.9	7.0	4.5
	Full	14.1	5.7	21.1	5.3	14.1	6.6	20.5	3.3

- Tested in Accordance with ISO 13265-1
- Ground Loop Heat Pump ratings based on 15% methanol antifreeze solution
- All ratings based upon operation at lower voltage of dual voltage rated models

ABOUT AHRI/ISO/ASHRAE 13256-1

AHRI/ASHRAE/ISO 13256-1 (Air-Conditioning and Refrigeration Institute/American Society of Heating, Refrigerating and Air Conditioning Engineers/International Standards Organization) is a certification standard for water-source heat pumps used in the following applications:

- WLHP (Water Loop Heat Pump – Boiler/Tower)
- GLHP (Ground Loop Heat Pump – Geothermal)

The directory at <http://www.ahrinet.org/> is constantly being updated and immediately available online.

Water and air temperatures used in AHRI certification standards are shown below.

Data certified by AHRI include heating/cooling capacities, EER (Energy Efficiency Ratio – Btuh per Watt) and COP (Btuh per Btuh) at the various conditions shown above. Pump power correction is calculated to adjust efficiencies for pumping Watts. Fan power is corrected to zero external static pressure using the equation below. The nominal airflow is rated at a specific external static pressure.

Fan Power Correction =

$$(\text{cfm} \times 0.472) \times (\text{esp} \times 249) \div 300$$

Capacities and efficiencies are calculated using the following equations:

ISO Cooling Capacity =

$$\text{Cooling Capacity (Btuh)} + [\text{Fan Power Correction (Watts)} \times 3.412]$$

ISO EER Efficiency (Btuh/W) =

$$\frac{\text{ISO Cooling Capacity (Btuh)}}{[\text{Power Input (Watts)} - \text{Fan Power Correction (Watts)} + \text{Pump Power Correction (Watts)}]}$$

ISO Heating Capacity =

$$\text{Heating Capacity (Btuh)} - [\text{Fan Power Correction (Watts)} \times 3.412]$$

ISO COP Efficiency (Btuh/Btuh) =

$$\frac{\text{ISO Heating Capacity (Btuh)} \times 3.412}{[\text{Power Input (Watts)} - \text{Fan Power Correction (Watts)} + \text{Pump Power Correction (Watts)}]}$$

Test Condition Comparison Table

	WLHP	GLHP
Cooling		
Entering Air Temperature DB/WB °F [°C]	80.6/66.2 [27/19]	80.6/66.2 [27/19]
Entering Water Temperature °F [°C]	86 [30]	77 [25]
Fluid Flow Rate	*	*
Heating		
Entering Air Temperature DB/WB °F [°C]	68 [20]	68 [20]
Entering Water Temperature °F [°C]	68 [20]	32 [0]
Fluid Flow Rate	*	*

Selection Procedure

Models:
SV
0930-1872

Reference Calculations

Heating	Cooling
$LWT = EWT - \frac{HE}{GPM \times \text{Constant}}$ $LAT = EAT + \frac{HC}{CFM \times 1.08}$	$LWT = EWT + \frac{HR}{GPM \times \text{Constant}^1} \quad LC = TC - SC$ $LAT (DB) = EAT (DB) - \frac{SC}{CFM \times 1.08} \quad S/T = \frac{SC}{TC}$

1. Constant = 500 for water, 485 for antifreeze

Conversion Table - to convert inch-pound (English) to S-I (Metric)

Airflow	Water Flow	External Static Pressure	Water Pressure Drop
Airflow (L/s) = CFM x 0.472	Water Flow (L/s) = GPM x 0.0631	ESP (Pa) = ESP (in of wg) x 249	PD (kPa) = PD (ft of hd) x 2.99

Legend and Glossary of Abbreviations

Abbreviations	Descriptions
Btuh	Btu (British Thermal Unit) per hour
BMS	Building Management System
CDT	Compressor discharge temperature, °F
CFM	Airflow, cubic feet per minute
COP	Coefficient of performance = Btuh output/Btuh input
CT EC	Electronically commutated constant torque blower motor
CV EC	Electronically commutated constant volume blower motor
DB	Dry bulb temperature, °F
DT or Delta T	Temperature Differential
EAT	Entering air temperature, °F
EER	Energy efficient ratio = Btuh output/Watt input
ESP	External static pressure, inches w.g.
EWT	Entering water temperature, °F
FPT	Female pipe thread
GPM	Water flow in U.S., gallons per minute
HC	Air heating capacity, Btuh
HE	Total heat of extraction, Btuh
HGRH	Hot Gas Reheat
HR	Total heat of rejection, Btuh

Abbreviations	Descriptions
HWG	Hot water generator (desuperheater) capacity, MBtuh
kW	Total power unit input, kilowatts
LAT	Leaving air temperature, °F
LC	Latent cooling capacity, Btuh
LOC	Loss of charge
LWT	Leaving water temperature, °F
LLWT	Load Leaving Water Temperature, °F
MBtuh	1,000 Btu per hour
MPT	Male pipe thread
MWV	Motorized water valve
PSC	Permanent split capacitor
RDS	Refrigerant Detection System
SC	Sensible cooling capacity, Btuh
SLWT	Source Leaving Water Temperature, °F
S/T	Sensible to total cooling ratio
TC	Total cooling capacity, Btuh
VFD	Variable frequency drive
WB	Wet bulb temperature, °F
WPD	Waterside pressure drop, psi or feet of head
WSE	Waterside economizer

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USE THE FOLLOWING SELECTION STEPS

1. Determine the actual heating and cooling loads at the desired dry bulb and wet bulb conditions.
2. Obtain the following design parameters: Entering water temperature, water flow rate in GPM, airflow in CFM, water flow pressure drop and design wet and dry bulb temperatures. Airflow CFM should be between 300 and 450 CFM per ton. Unit water pressure drop should be kept as close as possible to each other to make water balancing easier. Go to the appropriate tables and find the proper indicated water flow and water temperature.
3. Select a unit based on total and sensible cooling conditions. Select a unit which is closest to, but no larger than, the actual cooling load.
4. Enter tables at the design water flow and water temperature. Read the total and sensible cooling capacities.

Note: Interpolation is permissible, extrapolation is not.

5. Read the heating capacity. If it exceeds the design criteria it is acceptable. It is quite normal for water-source heat pumps to be selected on cooling capacity only since the heating output is usually greater than the cooling capacity.
6. Determine the correction factors associated with the variable factors of dry bulb and wet bulb.

Corrected Total Cooling =
tabulated total cooling x wet bulb correction.

Corrected Sensible Cooling =
tabulated sensible cooling x wet/dry bulb correction.

7. Compare the corrected capacities to the load requirements. Normally if the capacities are within 10% of the loads, the equipment is acceptable.
8. When completed, calculate water temperature rise and assess the selection. If the units selected are not within 10% of the load calculations, then review what effect changing the GPM, water temperature and/or air flow and air temperature would have on the corrected capacities. If the desired capacity cannot be achieved, select the next larger or smaller unit and repeat the procedure. Remember, when in doubt, undersize slightly for best performance.

EXAMPLE EQUIPMENT SELECTION FOR COOLING

Step 1: Load Determination

Assume we have determined that the appropriate cooling load at the desired dry bulb 80°F and wet bulb 65°F conditions is as follows:

Total Cooling..... 22,000 Btuh
Sensible Cooling 18,200 Btuh
Entering Air Temp..... 80°F Dry Bulb / 65°F Wet Bulb

Step 2: Design Conditions

Similarly, we have also obtained the following design parameters:

Entering Water Temp 90°F
Water Flow (Based upon 10°F rise in temp) .45 GPM
Airflow 600 CFM

Steps 3, 4, and 5: HP Selection

After making our preliminary selection (SV024), we enter the tables at design water flow and water temperature and read Total Cooling, Sensible Cooling and Heat of Rejection capacities:

Total Cooling..... 22,500 Btuh
Sensible Cooling 16,500 Btuh
Heat of Rejection 28,800 Btuh

Steps 6 and 7: Entering Airflow Corrections

Next, we determine our correction factors.

Corrected Values	Table	Ent Air	Airflow	Corrected
Corrected Total Cooling	= 22,500 x	0.976	x 0.967	= 21,235
Corrected Sensible Cooling	= 16,500 x	0.919	x 1.089	= 16,513
Corrected Heat of Rejection	= 28,800 x	0.969	x 0.972	= 27,126

Step 8: Water Temperature Rise Calculation and Assessment

Actual Temperature Rise 12.1°F

When we compare the Corrected Total Cooling and Corrected Sensible Cooling figures with our load requirements stated in Step 1, we discover that our selection is within ±10% of our sensible load requirement. Furthermore, we see that our Corrected Total Cooling figure is within 1,000 Btuh the actual indicated load.

Performance Data SV 0930 Cooling

Models:
SV
0930-1872

EWT °F	dT	TC					SC					S/T					kW					HR				
		Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
		30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100
20	45	9.0	12.0	18.0	24.0	30.0	6.6	8.5	12.4	16.4	20.5	0.73	0.71	0.69	0.68	0.68	0.13	0.20	0.40	0.68	1.04	9.4	12.7	19.4	26.3	33.5
	40	9.0	12.0	18.0	24.0	30.0	6.6	8.5	12.4	16.4	20.5	0.73	0.71	0.69	0.68	0.68	0.24	0.30	0.49	0.78	1.17	9.8	13.0	19.7	26.7	34.0
	35	9.0	12.0	18.0	24.0	30.0	6.6	8.5	12.4	16.4	20.5	0.73	0.71	0.69	0.68	0.68	0.13	0.20	0.40	0.68	1.04	9.4	12.7	19.4	26.3	33.5
30	30	9.0	12.0	18.0	24.0	30.0	6.6	8.5	12.4	16.4	20.5	0.73	0.71	0.69	0.68	0.68	0.24	0.30	0.49	0.78	1.17	9.8	13.0	19.7	26.7	34.0
	25	9.0	12.0	18.0	24.0	30.0	6.6	8.5	12.4	16.4	20.5	0.73	0.71	0.69	0.68	0.68	0.13	0.20	0.40	0.68	1.04	9.4	12.7	19.4	26.3	33.5
	20	9.0	12.0	18.0	24.0	30.0	6.6	8.5	12.4	16.4	20.5	0.73	0.71	0.69	0.68	0.68	0.24	0.30	0.49	0.78	1.17	9.8	13.0	19.7	26.7	34.0
40	15	9.0	12.0	18.0	24.0	30.0	6.6	8.5	12.4	16.4	20.5	0.73	0.71	0.69	0.68	0.68	0.13	0.20	0.40	0.68	1.04	9.4	12.7	19.4	26.3	33.5
	20	9.0	12.0	18.0	24.0	30.0	6.5	8.5	12.4	16.5	20.5	0.73	0.71	0.69	0.69	0.68	0.41	0.47	0.67	1.00	1.45	10.4	13.6	20.3	27.4	34.9
	10	9.0	12.0	18.0	24.0	30.0	6.6	8.5	12.4	16.4	20.5	0.73	0.71	0.69	0.68	0.68	0.24	0.30	0.49	0.78	1.17	9.8	13.0	19.7	26.7	34.0
50	20	9.0	12.0	18.0	24.0	30.0	6.5	8.5	12.4	16.5	20.6	0.72	0.71	0.69	0.69	0.69	0.54	0.60	0.85	1.25	1.80	10.8	14.1	20.9	28.3	36.2
	10	9.0	12.0	18.0	24.0	30.0	6.5	8.5	12.4	16.5	20.5	0.73	0.71	0.69	0.69	0.68	0.41	0.47	0.67	1.00	1.45	10.4	13.6	20.3	27.4	34.9
	20	9.0	12.0	18.0	24.0	30.0	6.5	8.5	12.4	16.5	20.6	0.72	0.70	0.69	0.69	0.69	0.66	0.75	1.06	1.56	2.25	11.2	14.5	21.6	29.3	37.7
60	10	9.0	12.0	18.0	24.0	30.0	6.5	8.5	12.4	16.5	20.6	0.72	0.71	0.69	0.69	0.69	0.54	0.60	0.85	1.25	1.80	10.8	14.1	20.9	28.3	36.2
	20	9.0	12.0	18.0	24.0	30.0	6.5	8.4	12.5	16.5	20.7	0.72	0.70	0.69	0.69	0.69	0.79	0.92	1.34	1.98	2.83	11.7	15.1	22.6	30.7	39.7
	10	9.0	12.0	18.0	24.0	30.0	6.5	8.5	12.4	16.5	20.6	0.72	0.70	0.69	0.69	0.69	0.66	0.75	1.06	1.56	2.25	11.2	14.5	21.6	29.3	37.7
70	20	9.0	12.0	18.0	24.0	29.7	6.4	8.4	12.5	16.6	20.5	0.71	0.70	0.69	0.69	0.69	0.98	1.16	1.72	2.52	3.51	12.3	16.0	23.9	32.6	41.7
	10	9.0	12.0	18.0	24.0	30.0	6.5	8.4	12.5	16.5	20.7	0.72	0.70	0.69	0.69	0.69	0.79	0.92	1.34	1.98	2.83	11.7	15.1	22.6	30.7	39.7
	20	9.0	12.0	18.0	24.0	26.2	6.4	8.4	12.5	16.6	18.1	0.71	0.70	0.69	0.69	0.69	1.24	1.50	2.22	3.22	3.66	13.2	17.1	25.6	35.0	38.7
80	10	9.0	12.0	18.0	24.0	29.7	6.4	8.4	12.5	16.6	20.5	0.71	0.70	0.69	0.69	0.69	0.98	1.16	1.72	2.52	3.51	12.3	16.0	23.9	32.6	41.7
	20	9.0	12.0	18.0	22.6	22.6	6.4	8.4	12.5	15.6	15.6	0.71	0.70	0.69	0.69	0.69	1.62	1.96	2.88	3.79	3.79	14.5	18.7	27.8	35.6	35.6
	10	9.0	12.0	18.0	24.0	26.2	6.4	8.4	12.5	16.6	18.1	0.71	0.70	0.69	0.69	0.69	1.24	1.50	2.22	3.22	3.66	13.2	17.1	25.6	35.0	38.7

- * Pressure drop is less than 1 ft
- Interpolation is permissible, extrapolation is not.
- Above performance is measured in MBH.
- Above performance is based on 400CFM per ton.
- Above performance is based on 80°F db / 67°F wb entering air conditions.
- Above performance is based on 15% methanol.
- Table does not include fan or pump power corrections for AHRI/ISO conditions.

Table continued on next page

Performance Data SV 0930 Cooling

Models:
SV
0930-1872

Table continued from previous page

EWT °F	EER					Hz					LWT (°F)					GPM					WPD (ft. hd)				
	Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100
20	69.1	59.8	44.9	35.3	28.9	24	34	54	72	89	65	65	65	65	65	0.4	0.6	0.9	1.2	1.6	*	*	*	*	*
30	37.4	39.8	36.4	30.7	25.7	28	38	56	74	91	70	70	70	70	70	0.5	0.7	1.0	1.4	1.8	*	*	*	*	*
40	69.1	59.8	44.9	35.3	28.9	24	34	54	72	89	65	65	65	65	65	0.6	0.8	1.2	1.6	2.0	*	*	*	*	*
50	37.4	39.8	36.4	30.7	25.7	28	38	56	74	91	70	70	70	70	70	0.7	0.9	1.4	1.9	2.4	*	*	*	*	*
60	69.1	59.8	44.9	35.3	28.9	24	34	54	72	89	65	65	65	65	65	0.8	1.1	1.6	2.2	2.8	*	*	*	*	1.1
70	37.4	39.8	36.4	30.7	25.7	28	38	56	74	91	70	70	70	70	70	1.0	1.4	2.1	2.8	3.6	*	*	*	1.1	1.5
80	69.1	59.8	44.9	35.3	28.9	24	34	54	72	89	65	65	65	65	65	1.3	1.8	2.7	3.7	4.7	*	*	1.0	1.6	2.2
90	21.9	25.8	26.9	24.1	20.7	34	43	60	78	95	80	80	80	80	80	1.1	1.4	2.1	2.9	3.7	*	*	*	1.1	1.5
100	37.4	39.8	36.4	30.7	25.7	28	38	56	74	91	70	70	70	70	70	2.1	2.7	4.1	5.6	7.1	*	1.0	1.8	2.8	4.1
110	16.7	19.9	21.3	19.2	16.6	38	47	64	81	100	90	90	90	90	90	1.1	1.5	2.2	3.0	3.8	*	*	*	1.0	1.5
120	21.9	25.8	26.9	24.1	20.7	34	43	60	78	95	80	80	80	80	80	2.2	2.9	4.3	5.8	7.4	*	1.0	1.8	2.8	4.1
130	13.7	16.1	17.0	15.3	13.3	41	50	67	86	107	100	100	100	100	100	1.2	1.5	2.3	3.1	4.0	*	*	*	1.0	1.5
140	16.7	19.9	21.3	19.2	16.6	38	47	64	81	100	90	90	90	90	90	2.3	3.0	4.4	6.0	7.6	*	1.0	1.8	2.8	4.2
150	11.3	13.0	13.4	12.1	10.6	44	53	72	94	117	110	110	110	110	110	1.2	1.6	2.4	3.3	4.2	*	*	*	1.0	1.5
160	13.7	16.1	17.0	15.3	13.3	41	50	67	86	107	100	100	100	100	100	2.4	3.1	4.6	6.2	8.0	*	*	1.8	2.9	4.3
170	9.2	10.3	10.5	9.5	8.5	48	58	79	104	130	120	120	120	120	120	1.3	1.7	2.5	3.5	4.5	*	*	*	1.1	1.6
180	11.3	13.0	13.4	12.1	10.6	44	53	72	94	117	110	110	110	110	110	2.5	3.2	4.8	6.6	8.4	*	*	1.8	3.0	4.6
190	7.2	8.0	8.1	7.5	7.2	54	65	90	118	130	130	130	130	130	130	1.4	1.8	2.8	3.8	4.2	*	*	*	1.1	1.3
200	9.2	10.3	10.5	9.5	8.5	48	58	79	104	130	120	120	120	120	120	2.6	3.4	5.1	7.0	8.9	*	1.0	1.9	3.2	4.9
210	5.6	6.1	6.3	6.0	6.0	63	76	105	130	130	140	140	140	140	140	1.6	2.0	3.0	3.9	3.9	*	*	*	1.1	1.1
220	7.2	8.0	8.1	7.5	7.2	54	65	90	118	130	130	130	130	130	130	2.9	3.7	5.5	7.6	8.4	*	1.1	2.0	3.5	4.2

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- Above performance is based on 80°F db / 67°F wb entering air conditions.
- Above performance is based on 15% methanol.
- Table does not include fan or pump power corrections for AHRI/ISO conditions.

Performance Data SV 0930 Heating

Models:
SV
0930-1872

EWT °F	dT	TC					kW					HE					COP				
		Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
		30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100
20	6	9.0	12.0	18.0	24.0	26.2	1.2	1.4	1.8	2.4	2.7	4.9	7.3	11.7	15.7	17.1	2.2	2.5	2.9	2.9	2.9
30	12	9.0	12.0	18.0	24.0	27.8	1.1	1.3	1.8	2.3	2.7	5.1	7.5	12.0	16.1	18.4	2.3	2.7	3.0	3.0	3.0
	6	9.0	12.0	18.0	24.0	30.0	1.1	1.2	1.6	2.1	2.8	5.4	7.8	12.4	16.7	20.5	2.5	2.9	3.2	3.3	3.2
40	12	9.0	12.0	18.0	24.0	30.0	1.0	1.2	1.5	2.0	2.6	5.6	8.1	12.7	17.0	21.0	2.6	3.1	3.4	3.5	3.3
	6	9.0	12.0	18.0	24.0	30.0	0.9	1.0	1.4	1.9	2.4	5.9	8.4	13.2	17.6	21.7	2.9	3.4	3.7	3.8	3.6
50	13	9.0	12.0	18.0	24.0	30.0	0.9	1.0	1.3	1.8	2.3	6.1	8.6	13.4	17.9	22.0	3.1	3.5	3.9	3.9	3.8
	7	9.0	12.0	18.0	24.0	30.0	0.8	0.9	1.2	1.6	2.1	6.4	9.0	13.9	18.4	22.7	3.5	4.0	4.4	4.3	4.1
60	13	9.0	12.0	18.0	24.0	30.0	0.7	0.8	1.1	1.5	2.0	6.6	9.2	14.2	18.8	23.2	3.8	4.3	4.7	4.6	4.4
	7	9.0	12.0	18.0	24.0	30.0	0.6	0.7	1.0	1.4	1.8	7.0	9.6	14.6	19.3	23.8	4.4	4.9	5.2	5.1	4.8
70	13	9.0	12.0	18.0	24.0	30.0	0.5	0.6	0.9	1.3	1.7	7.2	9.8	14.8	19.6	24.2	4.9	5.4	5.7	5.5	5.2
	7	9.0	12.0	18.0	24.0	30.0	0.4	0.6	0.8	1.1	1.5	7.5	10.1	15.2	20.1	24.8	5.9	6.3	6.4	6.1	5.7
80	13	9.0	12.0	18.0	24.0	30.0	0.4	0.5	0.8	1.1	1.4	7.6	10.3	15.4	20.4	25.1	6.7	7.0	7.0	6.6	6.2
	7	9.0	12.0	18.0	24.0	30.0	0.3	0.4	0.7	1.0	1.3	7.9	10.5	15.7	20.8	25.6	8.1	8.2	7.9	7.4	6.8
90	13	9.0	12.0	18.0	24.0	30.0	0.3	0.4	0.6	0.9	1.2	8.0	10.7	15.9	21.0	25.9	9.3	9.2	8.6	7.9	7.3
	7	9.0	12.0	18.0	24.0	30.0	0.2	0.3	0.6	0.8	1.1	8.2	10.9	16.1	21.3	26.3	11.3	10.6	9.6	8.7	8.1
100	17	9.0	12.0	18.0	24.0	30.0	0.2	0.3	0.6	0.8	1.1	8.2	10.9	16.1	21.3	26.3	11.3	10.6	9.6	8.7	8.1
110	27	9.0	12.0	18.0	24.0	30.0	0.2	0.3	0.6	0.8	1.1	8.2	10.9	16.1	21.3	26.3	11.3	10.6	9.6	8.7	8.1
120	37	9.0	12.0	18.0	24.0	30.0	0.2	0.3	0.6	0.8	1.1	8.2	10.9	16.1	21.3	26.3	11.3	10.6	9.6	8.7	8.1

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Table continued on next page

Performance Data SV 0930 Heating

Models:
SV
0930-1872

Table continued from previous page

EWT °F	Hz					LWT (°F)					GPM					WPD (ft. hd)				
	Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100
20	74	84	104	123	130	14	14	14	14	14	1.7	2.6	4.2	5.6	6.1	*	1.2	2.2	3.3	3.8
30	71	80	99	118	130	18	18	18	18	18	0.9	1.3	2.1	2.8	3.3	*	*	*	1.3	1.6
	65	74	93	111	129	24	24	24	24	24	1.9	2.8	4.4	5.9	7.2	*	1.2	2.3	3.5	4.7
40	61	70	88	106	123	28	28	28	28	28	1.0	1.4	2.2	3.0	3.7	*	*	*	1.3	1.8
	55	64	81	98	115	34	34	34	34	34	2.1	3.0	4.6	6.2	7.6	*	1.3	2.4	3.6	5.0
50	52	61	78	95	111	37	37	37	37	37	1.0	1.4	2.2	2.9	3.6	*	*	*	1.2	1.6
	46	54	71	87	103	43	43	43	43	43	1.9	2.7	4.2	5.6	6.8	*	1.1	2.0	3.0	4.1
60	42	50	67	83	98	47	47	47	47	47	1.1	1.5	2.3	3.0	3.8	*	*	*	1.2	1.6
	36	44	61	76	91	53	53	53	53	53	2.1	2.9	4.4	5.8	7.2	*	1.1	2.0	3.1	4.2
70	33	41	57	72	86	57	57	57	57	57	1.2	1.6	2.4	3.2	3.9	*	*	*	1.2	1.7
	28	36	51	66	79	63	63	63	63	63	2.2	3.0	4.6	6.0	7.4	*	1.2	2.0	3.1	4.3
80	25	33	48	62	76	67	67	67	67	67	1.2	1.7	2.5	3.3	4.1	*	*	*	1.2	1.7
	22	29	44	58	71	73	73	73	73	73	2.4	3.2	4.7	6.2	7.7	*	1.2	2.1	3.1	4.4
90	20	27	42	55	68	77	77	77	77	77	1.3	1.7	2.6	3.4	4.2	*	*	*	1.2	1.7
	18	25	39	52	64	83	83	83	83	83	2.5	3.3	4.9	6.4	7.9	*	1.1	2.0	3.1	4.4
100	18	25	39	52	64	83	83	83	83	83	1.0	1.4	2.0	2.6	3.3	*	*	*	*	1.1
110	18	25	39	52	64	83	83	83	83	83	0.6	0.9	1.3	1.7	2.1	*	*	*	*	*
120	18	25	39	52	64	83	83	83	83	83	0.5	0.6	0.9	1.2	1.5	*	*	*	*	*

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- Above performance is based on 80°F db / 67°F wb entering air conditions.
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Performance Data SV 1248 Cooling

Models:
SV
0930-1872

EWT °F	dT	TC					SC					S/T					kW					HR				
		Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
		25	40	60	80	100	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100
20	45	12.0	19.2	28.8	38.4	48.0	8.6	14.1	21.3	28.1	34.7	0.72	0.74	0.74	0.73	0.72	0.18	0.26	0.47	0.80	1.24	12.6	20.1	30.4	41.1	52.2
	40	12.0	19.2	28.8	38.4	48.0	8.6	14.1	21.2	28.1	34.8	0.71	0.73	0.74	0.73	0.72	0.24	0.33	0.56	0.93	1.42	12.8	20.3	30.7	41.6	52.8
30	35	12.0	19.2	28.8	38.4	48.0	8.6	14.1	21.3	28.1	34.7	0.72	0.74	0.74	0.73	0.72	0.18	0.26	0.47	0.80	1.24	12.6	20.1	30.4	41.1	52.2
	30	12.0	19.2	28.8	38.4	48.0	8.6	14.1	21.2	28.1	34.8	0.71	0.73	0.74	0.73	0.72	0.24	0.33	0.56	0.93	1.42	12.8	20.3	30.7	41.6	52.8
40	25	12.0	19.2	28.8	38.4	48.0	8.6	14.1	21.3	28.1	34.7	0.72	0.74	0.74	0.73	0.72	0.18	0.26	0.47	0.80	1.24	12.6	20.1	30.4	41.1	52.2
	20	12.0	19.2	28.8	38.4	48.0	8.6	14.1	21.2	28.1	34.8	0.71	0.73	0.74	0.73	0.72	0.24	0.33	0.56	0.93	1.42	12.8	20.3	30.7	41.6	52.8
50	15	12.0	19.2	28.8	38.4	48.0	8.6	14.1	21.3	28.1	34.7	0.72	0.74	0.74	0.73	0.72	0.18	0.26	0.47	0.80	1.24	12.6	20.1	30.4	41.1	52.2
	20	12.0	19.2	28.8	38.4	48.0	8.5	14.1	21.2	28.1	34.8	0.71	0.73	0.74	0.73	0.72	0.36	0.48	0.77	1.23	1.84	13.2	20.8	31.4	42.6	54.3
60	10	12.0	19.2	28.8	38.4	48.0	8.6	14.1	21.2	28.1	34.8	0.71	0.73	0.74	0.73	0.72	0.24	0.33	0.56	0.93	1.42	12.8	20.3	30.7	41.6	52.8
	20	14.0	19.2	28.8	38.4	48.0	10.1	14.1	21.2	28.1	34.8	0.72	0.73	0.74	0.73	0.72	0.52	0.65	1.03	1.59	2.34	15.8	21.4	32.3	43.8	56.0
70	10	14.0	19.2	28.8	38.4	48.0	10.1	14.1	21.2	28.1	34.8	0.72	0.73	0.74	0.73	0.72	0.38	0.48	0.77	1.23	1.84	15.3	20.8	31.4	42.6	54.3
	20	15.0	19.2	28.8	38.4	48.0	10.8	14.0	21.2	28.1	34.8	0.72	0.73	0.74	0.73	0.73	0.70	0.85	1.34	2.04	2.94	17.4	22.1	33.4	45.3	58.0
80	10	15.0	19.2	28.8	38.4	48.0	10.8	14.1	21.2	28.1	34.8	0.72	0.73	0.74	0.73	0.72	0.54	0.65	1.03	1.59	2.34	16.8	21.4	32.3	43.8	56.0
	20	16.0	19.2	28.8	38.4	48.0	11.6	14.0	21.2	28.2	34.8	0.72	0.73	0.74	0.73	0.73	0.94	1.09	1.71	2.56	3.65	19.2	22.9	34.6	47.2	60.5
90	10	16.0	19.2	28.8	38.4	48.0	11.6	14.0	21.2	28.1	34.8	0.72	0.73	0.74	0.73	0.73	0.73	0.85	1.34	2.04	2.94	18.5	22.1	33.4	45.3	58.0
	20	16.0	19.2	28.8	38.4	48.0	11.5	14.0	21.2	28.2	34.9	0.72	0.73	0.74	0.73	0.73	1.19	1.39	2.16	3.19	4.48	20.1	23.9	36.2	49.3	63.3
100	10	16.0	19.2	28.8	38.4	48.0	11.6	14.0	21.2	28.2	34.8	0.72	0.73	0.74	0.73	0.73	0.94	1.09	1.71	2.56	3.65	19.2	22.9	34.6	47.2	60.5
	20	16.0	19.2	28.8	38.4	48.0	11.5	14.0	21.2	28.2	34.9	0.72	0.73	0.74	0.73	0.73	1.50	1.74	2.69	3.92	5.44	21.1	25.2	38.0	51.8	66.6
110	10	16.0	19.2	28.8	38.4	48.0	11.5	14.0	21.2	28.2	34.9	0.72	0.73	0.74	0.73	0.73	1.19	1.39	2.16	3.19	4.48	20.1	23.9	36.2	49.3	63.3
	20	16.0	19.2	28.8	38.4	48.0	11.5	14.0	21.2	28.2	34.9	0.72	0.73	0.74	0.73	0.73	1.86	2.17	3.31	4.76	6.53	22.4	26.6	40.1	54.6	70.3
120	10	16.0	19.2	28.8	38.4	48.0	11.5	14.0	21.2	28.2	34.9	0.72	0.73	0.74	0.73	0.73	1.50	1.74	2.69	3.92	5.44	21.1	25.2	38.0	51.8	66.6

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Performance Data SV 1248 Cooling

Models:
SV
0930-1872

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EWT °F	EER					Hz					LWT (°F)					GPM					WPD (ft. hd)				
	Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100
20	65.1	72.8	61.0	48.1	38.6	16	25	37	50	64	65	65	65	65	65	0.6	0.9	1.4	1.9	2.4	*	*	*	*	*
30	49.3	57.9	51.1	41.4	33.8	17	25	37	51	66	70	70	70	70	70	0.7	1.1	1.6	2.2	2.8	*	*	*	*	*
	65.1	72.8	61.0	48.1	38.6	16	25	37	50	64	65	65	65	65	65	0.8	1.2	1.8	2.5	3.1	*	*	*	*	*
40	49.3	57.9	51.1	41.4	33.8	17	25	37	51	66	70	70	70	70	70	0.9	1.4	2.2	2.9	3.7	*	*	*	*	*
	65.1	72.8	61.0	48.1	38.6	16	25	37	50	64	65	65	65	65	65	1.1	1.7	2.6	3.5	4.4	*	*	*	*	1.3
50	49.3	57.9	51.1	41.4	33.8	17	25	37	51	66	70	70	70	70	70	1.3	2.1	3.2	4.4	5.6	*	*	*	1.2	1.9
	65.1	72.8	61.0	48.1	38.6	16	25	37	50	64	65	65	65	65	65	1.8	2.8	4.3	5.8	7.3	*	*	1.2	2.0	3.1
60	33.3	40.1	37.2	31.3	26.1	17	26	39	53	69	80	80	80	80	80	1.4	2.2	3.3	4.5	5.7	*	*	*	1.2	1.9
	49.3	57.9	51.1	41.4	33.8	17	25	37	51	66	70	70	70	70	70	2.7	4.3	6.5	8.7	11.1	*	1.2	2.4	4.2	6.5
70	27.0	29.6	28.0	24.1	20.5	21	28	41	57	73	90	90	90	90	90	1.7	2.3	3.4	4.6	5.9	*	*	*	1.2	1.9
	36.4	40.1	37.2	31.3	26.1	20	26	39	53	69	80	80	80	80	80	3.2	4.4	6.6	9.0	11.4	*	1.1	2.4	4.2	6.7
80	21.4	22.6	21.5	18.9	16.3	24	30	44	61	78	100	100	100	100	100	1.8	2.3	3.5	4.8	6.1	*	*	*	1.2	1.9
	27.8	29.6	28.0	24.1	20.5	22	28	41	57	73	90	90	90	90	90	3.6	4.5	6.8	9.3	11.8	*	1.1	2.4	4.3	6.9
90	17.0	17.6	16.8	15.0	13.1	27	32	48	65	85	110	110	110	110	110	2.0	2.4	3.7	5.0	6.4	*	*	*	1.2	2.0
	21.8	22.6	21.5	18.9	16.3	25	30	44	61	78	100	100	100	100	100	3.9	4.7	7.1	9.6	12.3	*	1.1	2.5	4.5	7.3
100	13.4	13.8	13.4	12.0	10.7	30	35	52	71	92	120	120	120	120	120	2.1	2.6	3.9	5.3	6.8	*	*	*	1.3	2.1
	17.0	17.6	16.8	15.0	13.1	27	32	48	65	85	110	110	110	110	110	4.1	4.9	7.4	10.0	12.9	*	1.1	2.6	4.7	7.7
110	10.7	11.0	10.7	9.8	8.8	33	39	58	78	101	130	130	130	130	130	2.3	2.7	4.1	5.6	7.2	*	*	*	1.3	2.2
	13.4	13.8	13.4	12.0	10.7	30	35	52	71	92	120	120	120	120	120	4.3	5.1	7.8	10.6	13.6	*	1.2	2.7	5.0	8.3
120	8.6	8.8	8.7	8.1	7.4	37	43	64	86	111	140	140	140	140	140	2.4	2.9	4.4	5.9	7.6	*	*	*	1.4	2.4
	10.7	11.0	10.7	9.8	8.8	33	39	58	78	101	130	130	130	130	130	4.6	5.4	8.2	11.2	14.4	*	1.2	2.9	5.4	9.1

- * Pressure drop is less than 1 ft
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- Above performance is based on 400CFM per ton.
- Above performance is based on 80°F db / 67°F wb entering air conditions.
- Above performance is based on 15% methanol.
- Table does not include fan or pump power corrections for AHRI/ISO conditions.

Performance Data SV 1248 Heating

Models:
SV
0930-1872

EWT °F	dT	TC					kW					HE					COP				
		Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
		25	40	60	80	100	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100
20	6	14.0	19.2	28.8	38.4	46.4	1.3	1.7	2.6	3.8	4.9	9.5	13.3	19.8	25.6	29.9	3.1	3.3	3.2	3.0	2.8
30	12	14.0	19.2	28.8	38.4	48.0	1.2	1.6	2.5	3.5	4.8	9.8	13.7	20.4	26.4	31.7	3.3	3.5	3.4	3.2	3.0
	6	14.0	19.2	28.8	38.4	48.0	1.1	1.5	2.2	3.2	4.3	10.1	14.1	21.1	27.5	33.3	3.6	3.8	3.8	3.5	3.3
40	12	12.0	19.2	28.8	38.4	48.0	1.0	1.4	2.1	3.0	4.0	8.7	14.4	21.6	28.2	34.3	3.6	4.0	4.0	3.8	3.5
	6	12.0	19.2	28.8	38.4	48.0	0.9	1.3	1.9	2.7	3.6	8.9	14.9	22.3	29.2	35.6	3.9	4.4	4.4	4.2	3.9
50	13	12.0	19.2	28.8	38.4	48.0	0.9	1.2	1.8	2.6	3.4	9.1	15.1	22.6	29.7	36.3	4.1	4.7	4.7	4.4	4.1
	7	12.0	19.2	28.8	38.4	48.0	0.8	1.1	1.6	2.3	3.1	9.3	15.5	23.2	30.6	37.5	4.5	5.1	5.2	4.9	4.6
60	13	12.0	19.2	28.8	38.4	48.0	0.7	1.0	1.5	2.1	2.9	9.5	15.7	23.6	31.1	38.2	4.8	5.5	5.5	5.3	4.9
	7	12.0	19.2	28.8	38.4	48.0	0.7	0.9	1.4	1.9	2.6	9.7	16.0	24.1	31.9	39.2	5.3	6.1	6.2	5.9	5.5
70	13	12.0	19.2	28.8	38.4	48.0	0.6	0.9	1.3	1.8	2.4	9.9	16.3	24.5	32.3	39.9	5.8	6.5	6.6	6.3	5.9
	7	12.0	19.2	28.8	38.4	48.0	0.5	0.8	1.1	1.6	2.1	10.2	16.6	24.9	33.0	40.8	6.6	7.3	7.4	7.1	6.6
80	13	12.0	19.2	28.8	38.4	48.0	0.5	0.7	1.1	1.5	2.0	10.3	16.8	25.2	33.4	41.3	7.3	8.0	8.0	7.6	7.2
	7	12.0	19.2	28.8	38.4	48.0	0.4	0.6	0.9	1.3	1.7	10.6	17.1	25.6	33.9	42.0	8.7	9.1	8.9	8.5	8.0
90	13	12.9	19.2	28.8	38.4	48.0	0.4	0.6	0.9	1.2	1.6	11.6	17.3	25.8	34.2	42.5	10.0	10.1	9.7	9.2	8.7
	7	13.6	19.2	28.8	38.4	48.0	0.3	0.5	0.8	1.1	1.4	12.6	17.6	26.2	34.7	43.1	12.8	11.9	10.9	10.3	9.7
100	17	13.6	19.2	28.8	38.4	48.0	0.3	0.5	0.8	1.1	1.4	12.6	17.6	26.2	34.7	43.1	12.8	11.9	10.9	10.3	9.7
110	27	13.6	19.2	28.8	38.4	48.0	0.3	0.5	0.8	1.1	1.4	12.6	17.6	26.2	34.7	43.1	12.8	11.9	10.9	10.3	9.7
120	37	13.6	19.2	28.8	38.4	48.0	0.3	0.5	0.8	1.1	1.4	12.6	17.6	26.2	34.7	43.1	12.8	11.9	10.9	10.3	9.7

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- Above performance is based on 400CFM per ton.
- Above performance is based on 80°F db / 67°F wb entering air conditions.
- Above performance is based on 15% methanol.
- Table does not include fan or pump power corrections for AHRI/ISO conditions.

Table continued on next page

Performance Data SV 1248 Heating

Models:
SV
0930-1872

Table continued from previous page

EWT °F	Hz					LWT (°F)					GPM					WPD (ft. hd)				
	Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100
20	41	54	78	101	120	14	14	14	14	14	3.4	4.7	7.0	9.1	10.6	*	1.7	3.4	5.2	6.9
30	39	51	73	95	117	18	18	18	18	18	1.7	2.4	3.6	4.7	5.6	*	*	1.1	1.6	2.2
	35	47	67	88	107	24	24	24	24	24	3.6	5.0	7.5	9.7	11.7	*	1.8	3.6	5.7	8.1
40	29	44	63	83	101	28	28	28	28	28	1.5	2.5	3.8	5.0	6.0	*	*	1.1	1.7	2.4
	26	40	58	75	93	34	34	34	34	34	3.1	5.2	7.8	10.3	12.5	*	1.9	3.8	6.2	8.8
50	25	38	55	72	89	37	37	37	37	37	1.5	2.4	3.7	4.8	5.9	*	*	*	1.6	2.2
	23	35	50	66	81	43	43	43	43	43	2.8	4.7	7.0	9.2	11.3	*	1.5	3.0	4.9	7.1
60	21	32	47	62	77	47	47	47	47	47	1.5	2.5	3.8	5.0	6.2	*	*	1.0	1.6	2.3
	19	29	43	57	70	53	53	53	53	53	2.9	4.8	7.3	9.6	11.8	*	1.5	3.1	5.1	7.5
70	18	28	40	53	66	57	57	57	57	57	1.6	2.6	4.0	5.2	6.5	*	*	1.0	1.7	2.4
	17	25	37	49	61	63	63	63	63	63	3.1	5.0	7.5	9.9	12.3	*	1.5	3.1	5.3	7.8
80	16	24	35	46	57	67	67	67	67	67	1.7	2.7	4.1	5.4	6.7	*	*	1.0	1.7	2.5
	15	22	32	43	53	73	73	73	73	73	3.2	5.1	7.7	10.2	12.7	*	1.5	3.2	5.4	8.1
90	15	21	31	41	51	77	77	77	77	77	1.9	2.8	4.2	5.6	6.9	*	*	*	1.7	2.5
	15	20	29	38	48	83	83	83	83	83	3.8	5.3	7.9	10.5	13.0	*	1.5	3.2	5.4	8.3
100	15	20	29	38	48	83	83	83	83	83	1.6	2.2	3.3	4.3	5.4	*	*	*	*	1.5
110	15	20	29	38	48	83	83	83	83	83	1.0	1.4	2.1	2.7	3.4	*	*	*	*	*
120	15	20	29	38	48	83	83	83	83	83	0.7	1.0	1.5	2.0	2.5	*	*	*	*	*

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- Above performance is based on 80°F db / 67°F wb entering air conditions.
- Above performance is based on 15% methanol.
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Performance Data SV 1872 Cooling

Models:
SV
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EWT °F	dT	TC					SC					S/T					kW					HR				
		Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
		30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100
20	45	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.8	33.6	40.9	0.73	0.73	0.72	0.70	0.68	0.29	0.34	0.66	1.30	2.24	19.0	25.2	38.3	52.4	67.6
	40	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.9	33.7	41.0	0.73	0.73	0.72	0.70	0.68	0.37	0.43	0.78	1.43	2.40	19.3	25.5	38.6	52.9	68.2
30	35	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.8	33.6	40.9	0.73	0.73	0.72	0.70	0.68	0.29	0.34	0.66	1.30	2.24	19.0	25.2	38.3	52.4	67.6
	30	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.9	33.7	41.0	0.73	0.73	0.72	0.70	0.68	0.37	0.43	0.78	1.43	2.40	19.3	25.5	38.6	52.9	68.2
40	25	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.8	33.6	40.9	0.73	0.73	0.72	0.70	0.68	0.29	0.34	0.66	1.30	2.24	19.0	25.2	38.3	52.4	67.6
	20	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.9	33.7	41.0	0.73	0.73	0.72	0.70	0.68	0.37	0.43	0.78	1.43	2.40	19.3	25.5	38.6	52.9	68.2
50	15	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.8	33.6	40.9	0.73	0.73	0.72	0.70	0.68	0.29	0.34	0.66	1.30	2.24	19.0	25.2	38.3	52.4	67.6
	20	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.9	33.7	41.1	0.73	0.73	0.72	0.70	0.68	0.53	0.63	1.06	1.79	2.84	19.8	26.1	39.6	54.1	69.7
60	10	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.9	33.7	41.0	0.73	0.73	0.72	0.70	0.68	0.37	0.43	0.78	1.43	2.40	19.3	25.5	38.6	52.9	68.2
	20	18.0	24.0	36.0	48.0	60.0	13.1	17.5	25.9	33.8	41.2	0.73	0.73	0.72	0.70	0.69	0.71	0.86	1.41	2.26	3.42	20.4	27.0	40.8	55.7	71.7
70	10	18.0	24.0	36.0	48.0	60.0	13.2	17.5	25.9	33.7	41.1	0.73	0.73	0.72	0.70	0.68	0.53	0.63	1.06	1.79	2.84	19.8	26.1	39.6	54.1	69.7
	20	18.0	24.0	36.0	48.0	60.0	13.1	17.5	25.9	33.9	41.3	0.73	0.73	0.72	0.71	0.69	0.92	1.15	1.85	2.85	4.17	21.1	27.9	42.3	57.7	74.2
80	10	18.0	24.0	36.0	48.0	60.0	13.1	17.5	25.9	33.8	41.2	0.73	0.73	0.72	0.70	0.69	0.71	0.86	1.41	2.26	3.42	20.4	27.0	40.8	55.7	71.7
	20	18.0	24.0	36.0	48.0	60.0	13.1	17.5	26.0	33.9	41.4	0.73	0.73	0.72	0.71	0.69	1.16	1.49	2.38	3.57	5.08	22.0	29.1	44.1	60.2	77.3
90	10	18.0	24.0	36.0	48.0	60.0	13.1	17.5	25.9	33.9	41.3	0.73	0.73	0.72	0.71	0.69	0.92	1.15	1.85	2.85	4.17	21.1	27.9	42.3	57.7	74.2
	20	18.0	24.0	36.0	48.0	60.0	13.1	17.5	26.0	34.0	41.5	0.73	0.73	0.72	0.71	0.69	1.45	1.89	3.01	4.43	6.16	22.9	30.5	46.3	63.1	81.0
100	10	18.0	24.0	36.0	48.0	60.0	13.1	17.5	26.0	33.9	41.4	0.73	0.73	0.72	0.71	0.69	1.16	1.49	2.38	3.57	5.08	22.0	29.1	44.1	60.2	77.3
	20	18.0	24.0	36.0	48.0	60.0	13.0	17.5	26.0	34.1	41.6	0.72	0.73	0.72	0.71	0.69	1.79	2.36	3.75	5.43	7.43	24.1	32.1	48.8	66.5	85.3
110	10	18.0	24.0	36.0	48.0	60.0	13.1	17.5	26.0	34.0	41.5	0.73	0.73	0.72	0.71	0.69	1.45	1.89	3.01	4.43	6.16	22.9	30.5	46.3	63.1	81.0
	20	18.0	24.0	36.0	48.0	60.0	13.0	17.5	26.1	34.1	41.7	0.72	0.73	0.72	0.71	0.70	2.19	2.92	4.60	6.59	8.88	25.5	33.9	51.7	70.5	90.3
120	10	18.0	24.0	36.0	48.0	60.0	13.0	17.5	26.0	34.1	41.6	0.72	0.73	0.72	0.71	0.69	1.79	2.36	3.75	5.43	7.43	24.1	32.1	48.8	66.5	85.3

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Performance Data SV 1872 Cooling

Models:
SV
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EWT °F	EER					Hz					LWT (°F)					GPM					WPD (ft. hd)				
	Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100	30	40	60	80	100
20	61.6	71.0	54.4	37.1	26.8	19	24	36	52	71	65	65	65	65	65	0.9	1.2	1.8	2.5	3.2	*	*	*	*	1.3
30	49.0	56.3	46.4	33.5	25.0	19	24	37	52	71	70	70	70	70	70	1.0	1.3	2.0	2.8	3.6	*	*	*	*	1.5
	61.6	71.0	54.4	37.1	26.8	19	24	36	52	71	65	65	65	65	65	1.1	1.5	2.3	3.2	4.1	*	*	*	*	1.8
40	49.0	56.3	46.4	33.5	25.0	19	24	37	52	71	70	70	70	70	70	1.4	1.8	2.7	3.7	4.8	*	*	1.1	1.6	2.2
	61.6	71.0	54.4	37.1	26.8	19	24	36	52	71	65	65	65	65	65	1.6	2.1	3.2	4.4	5.7	*	*	1.4	2.0	2.7
50	49.0	56.3	46.4	33.5	25.0	19	24	37	52	71	70	70	70	70	70	2.0	2.7	4.1	5.6	7.2	*	1.1	1.8	2.6	3.7
	61.6	71.0	54.4	37.1	26.8	19	24	36	52	71	65	65	65	65	65	2.7	3.5	5.4	7.4	9.5	1.1	1.5	2.5	3.9	5.5
60	34.1	38.3	34.1	26.8	21.1	20	25	38	54	72	80	80	80	80	80	2.1	2.8	4.2	5.7	7.3	*	1.1	1.8	2.6	3.7
	49.0	56.3	46.4	33.5	25.0	19	24	37	52	71	70	70	70	70	70	4.1	5.4	8.1	11.1	14.3	1.7	2.5	4.4	6.9	10.2
70	25.4	27.7	25.5	21.2	17.5	21	27	41	57	76	90	90	90	90	90	2.2	2.8	4.3	5.9	7.6	*	1.1	1.8	2.7	3.7
	34.1	38.3	34.1	26.8	21.1	20	25	38	54	72	80	80	80	80	80	4.2	5.5	8.3	11.4	14.7	1.7	2.5	4.4	7.0	10.4
80	19.6	20.9	19.5	16.8	14.4	23	30	44	62	81	100	100	100	100	100	2.2	3.0	4.5	6.1	7.8	*	1.2	1.8	2.7	3.8
	25.4	27.7	25.5	21.2	17.5	21	27	41	57	76	90	90	90	90	90	4.3	5.7	8.6	11.8	15.1	1.8	2.5	4.4	7.1	10.6
90	15.5	16.1	15.1	13.4	11.8	25	33	49	68	88	110	110	110	110	110	2.3	3.1	4.7	6.4	8.2	*	1.2	1.9	2.8	3.9
	19.6	20.9	19.5	16.8	14.4	23	30	44	62	81	100	100	100	100	100	4.5	5.9	9.0	12.2	15.7	1.8	2.5	4.5	7.3	11.0
100	12.4	12.7	12.0	10.8	9.7	27	36	54	75	97	120	120	120	120	120	2.5	3.3	4.9	6.7	8.7	*	1.2	1.9	2.8	4.1
	15.5	16.1	15.1	13.4	11.8	25	33	49	68	88	110	110	110	110	110	4.7	6.2	9.4	12.8	16.5	1.8	2.6	4.7	7.6	11.6
110	10.1	10.2	9.6	8.8	8.1	29	39	60	83	107	130	130	130	130	130	2.6	3.5	5.2	7.2	9.2	*	1.3	2.0	3.0	4.3
	12.4	12.7	12.0	10.8	9.7	27	36	54	75	97	120	120	120	120	120	4.9	6.5	9.9	13.5	17.4	1.9	2.7	4.9	8.0	12.3
120	8.2	8.2	7.8	7.3	6.8	31	43	67	92	119	140	140	140	140	140	2.8	3.7	5.6	7.7	9.8	1.0	1.3	2.1	3.1	4.5
	10.1	10.2	9.6	8.8	8.1	29	39	60	83	107	130	130	130	130	130	5.2	6.9	10.5	14.4	18.4	1.9	2.8	5.2	8.6	13.2

- * Pressure drop is less than 1 ft
- Interpolation is permissible, extrapolation is not.
- Above performance is measured in MBH.
- Above performance is based on 400CFM per ton.
- Above performance is based on 80°F db / 67°F wb entering air conditions.
- Above performance is based on 15% methanol.
- Table does not include fan or pump power corrections for AHRI/ISO conditions.

Performance Data SV 1872 Heating

Models:
SV
0930-1872

EWT °F	dT	TC					kW					HE					COP				
		Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
		25	40	60	80	100	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100
20	6	18.0	28.8	43.2	57.6	58.0	1.6	2.5	4.0	5.8	5.9	12.5	20.1	29.4	37.7	38.0	3.3	3.3	3.1	2.9	2.9
30	12	18.0	28.8	43.2	57.6	61.8	1.5	2.4	3.8	5.5	6.0	12.8	20.6	30.2	38.8	41.1	3.5	3.5	3.3	3.1	3.0
	6	18.0	28.8	43.2	57.6	68.0	1.4	2.2	3.5	5.1	6.4	13.2	21.2	31.2	40.3	46.4	3.7	3.8	3.6	3.3	3.1
40	12	18.0	28.8	43.2	57.6	72.0	1.3	2.1	3.3	4.8	6.5	13.4	21.7	31.9	41.3	49.8	3.9	4.0	3.8	3.5	3.2
	6	18.0	28.8	43.2	57.6	72.0	1.2	1.9	3.0	4.4	6.0	13.8	22.3	32.9	42.7	51.6	4.3	4.4	4.2	3.9	3.5
50	13	18.0	28.8	43.2	57.6	72.0	1.2	1.8	2.9	4.2	5.7	14.0	22.6	33.3	43.3	52.5	4.5	4.6	4.4	4.0	3.7
	7	18.0	28.8	43.2	57.6	72.0	1.1	1.7	2.6	3.8	5.2	14.3	23.1	34.2	44.6	54.2	4.9	5.1	4.8	4.4	4.0
60	13	18.0	28.8	43.2	57.6	72.0	1.0	1.6	2.5	3.6	4.9	14.5	23.5	34.8	45.4	55.2	5.2	5.4	5.1	4.7	4.3
	7	18.0	28.8	43.2	57.6	72.0	0.9	1.4	2.2	3.3	4.5	14.8	24.0	35.6	46.5	56.7	5.7	5.9	5.6	5.2	4.7
70	13	18.0	28.8	43.2	57.6	72.0	0.9	1.3	2.1	3.1	4.2	15.0	24.3	36.0	47.2	57.7	6.0	6.4	6.0	5.5	5.0
	7	18.0	28.8	43.2	57.6	72.0	0.8	1.2	1.9	2.8	3.8	15.3	24.7	36.7	48.1	59.0	6.7	7.0	6.7	6.1	5.5
80	13	18.0	28.8	43.2	57.6	72.0	0.7	1.1	1.8	2.6	3.6	15.5	25.0	37.1	48.8	59.8	7.1	7.5	7.1	6.5	5.9
	7	18.0	28.8	43.2	57.6	72.0	0.7	1.0	1.6	2.3	3.2	15.7	25.4	37.7	49.6	60.9	7.9	8.4	7.9	7.2	6.5
90	13	18.0	28.8	43.2	57.6	72.0	0.6	0.9	1.5	2.2	3.0	15.9	25.6	38.1	50.1	61.6	8.5	9.0	8.4	7.7	6.9
	7	19.5	28.8	43.2	57.6	72.0	0.6	0.8	1.4	2.0	2.8	17.5	25.9	38.6	50.8	62.6	9.7	10.0	9.3	8.5	7.6
100	17	19.5	28.8	43.2	57.6	72.0	0.6	0.8	1.4	2.0	2.8	17.5	25.9	38.6	50.8	62.6	9.7	10.0	9.3	8.5	7.6
110	27	19.5	28.8	43.2	57.6	72.0	0.6	0.8	1.4	2.0	2.8	17.5	25.9	38.6	50.8	62.6	9.7	10.0	9.3	8.5	7.6
120	37	19.5	28.8	43.2	57.6	72.0	0.6	0.8	1.4	2.0	2.8	17.5	25.9	38.6	50.8	62.6	9.7	10.0	9.3	8.5	7.6

- * Pressure drop is less than 1 ft
- Interpolation is permissible, extrapolation is not.
- Above performance is measured in MBH.
- Above performance is based on 400CFM per ton.
- Above performance is based on 80°F db / 67°F wb entering air conditions.
- Above performance is based on 15% methanol.
- Table does not include fan or pump power corrections for AHRI/ISO conditions.

Table continued on next page

Performance Data SV 1872 Heating

Models:
SV
0930-1872

Table continued from previous page

EWT °F	Hz					LWT (°F)					GPM					WPD (ft. hd)				
	Compressor Speed %					Compressor Speed %					Compressor Speed %					Compressor Speed %				
	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100	25	40	60	80	100
20	39	61	90	119	120	14	14	14	14	14	4.4	7.1	10.4	13.4	13.5	2.2	4.2	7.3	10.6	10.7
30	37	57	85	112	120	18	18	18	18	18	2.3	3.6	5.3	6.9	7.3	*	1.7	2.8	3.9	4.2
	33	52	77	102	120	24	24	24	24	24	4.6	7.5	11.0	14.2	16.4	2.3	4.4	7.7	11.4	14.1
40	31	49	73	96	119	28	28	28	28	28	2.4	3.8	5.6	7.3	8.8	*	1.7	2.9	4.1	5.4
	29	45	66	87	108	34	34	34	34	34	4.8	7.8	11.6	15.0	18.2	2.3	4.5	8.0	12.0	16.3
50	27	43	63	83	103	37	37	37	37	37	2.3	3.7	5.4	7.0	8.5	*	1.6	2.7	3.8	5.0
	25	39	58	76	94	43	43	43	43	43	4.3	7.0	10.3	13.4	16.3	2.0	3.7	6.5	9.8	13.4
60	23	37	54	71	88	47	47	47	47	47	2.3	3.8	5.6	7.3	8.9	*	1.6	2.7	3.9	5.2
	21	34	50	65	80	53	53	53	53	53	4.5	7.2	10.7	14.0	17.1	2.0	3.8	6.7	10.2	14.0
70	20	32	47	61	75	57	57	57	57	57	2.4	3.9	5.8	7.6	9.3	*	1.7	2.8	4.0	5.4
	18	29	43	56	69	63	63	63	63	63	4.6	7.4	11.0	14.5	17.7	2.0	3.8	6.8	10.5	14.6
80	17	28	41	53	65	67	67	67	67	67	2.5	4.0	6.0	7.9	9.7	*	1.7	2.8	4.1	5.5
	16	26	38	49	60	73	73	73	73	73	4.7	7.6	11.4	14.9	18.3	2.0	3.8	6.9	10.7	15.0
90	15	24	36	47	57	77	77	77	77	77	2.6	4.2	6.2	8.1	10.0	1.0	1.7	2.8	4.1	5.6
	15	23	34	44	53	83	83	83	83	83	5.3	7.8	11.6	15.3	18.9	2.3	3.8	7.0	10.8	15.4
100	15	23	34	44	53	83	83	83	83	83	2.2	3.2	4.8	6.3	7.8	*	1.3	2.0	2.8	3.7
110	15	23	34	44	53	83	83	83	83	83	1.4	2.0	3.0	4.0	4.9	*	*	1.2	1.6	2.0
120	15	23	34	44	53	83	83	83	83	83	1.0	1.5	2.2	2.9	3.6	*	*	*	1.1	1.4

- * Pressure drop is less than 1 ft
- Interpolation is permissible, extrapolation is not.
- Above performance is measured in MBH.
- Above performance is based on 400CFM per ton.
- Above performance is based on 80°F db / 67°F wb entering air conditions.
- Above performance is based on 15% methanol.
- Table does not include fan or pump power corrections for AHRI/ISO conditions.

Corrections Cooling, Heating, and Airflow Tables

Models:
SV
0930-1872

Cooling Correction

Entering Air WB °F	Total Capacity	Sensible Cooling Capacity Multipliers - Entering DB °F							Power	Heat of Rejection
		65	70	75	80	80.6	85	90		
50.0	0.850	1.174	*	*	*	*	*	*	0.953	0.870
55.0	0.880	0.902	1.115	*	*	*	*	*	0.964	0.896
60.0	0.922	0.646	0.875	1.103	1.329	*	*	*	0.977	0.932
65.0	0.975		0.639	0.869	1.096	1.123	1.320	*	0.993	0.979
66.2	0.990		0.582	0.812	1.039	1.066	1.262	*	0.997	0.991
67.0	1.000		0.545	0.774	1.000	1.027	1.223	1.444	1.000	1.000
70.0	1.040			0.630	0.853	0.880	1.075	1.297	1.011	1.035
75.0	1.117				0.601	0.627	0.821	1.046	1.033	1.101

Notes:

- AHRI/ISO/ASHRAE 13256-1 uses entering air conditions of Cooling - 80.6°F (27°C) DB/ 66.2°F (19°C) WB, and Heating 68°F (20°C) DB/ 59°F (15°C) WB entering air temperature.
- Asterisks indicate that no correction factor is needed, Total Capacity equals Sensible capacity.
- Entering DB temperature range is based on operating limits, not on commissioning limits.
- Cooling and heating air corrections based on rated airflow.

Heating Correction

Entering Air DB °F	Heating Capacity	Power	Heat of Rejection
50	1.035	0.841	1.084
55	1.027	0.877	1.065
60	1.019	0.915	1.045
65	1.010	0.957	1.023
68	1.004	0.982	1.01
70	1.000	1.000	1.000
75	0.989	1.045	0.974
80	0.976	1.093	0.946

Airflow Correction

Airflow % of Rated	Cooling				Heating		
	Total Capacity	Sensible Capacity	Power	Heat of Rejection	Heating Capacity	Power	Heat of Extraction
60%	0.920	0.781	0.959	0.927	0.946	1.241	0.881
69%	0.942	0.832	0.964	0.946	0.960	1.163	0.915
75%	0.956	0.867	0.696	0.959	0.969	1.115	0.937
81%	0.969	0.901	0.975	0.970	0.978	1.076	0.956
88%	0.981	0.934	0.982	0.981	0.986	1.043	0.973
94%	0.991	0.967	0.990	0.991	0.993	1.018	0.988
100%	1.000	1.000	1.000	1.000	1.000	1.000	1.000
106%	1.007	1.033	1.011	1.008	1.006	0.990	1.010
113%	1.013	1.065	1.023	1.015	1.012	0.986	1.017
119%	1.018	1.098	1.036	1.021	1.017	0.983	1.024
125%	1.021	1.131	1.051	1.026	1.021	0.981	1.030
130%	1.023	1.159	1.063	1.030	1.024	0.979	1.034

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SV Electrical Data for EC Motor with Internal Flow Controller

Model	Volt Code	Rated Voltage	Compressor			Ext Loop FLA	Fan Motor FLA	Total Unit FLA	Min Circ Amp	Max Fuse/HACR
			RLA	LRA	Qty					
0930	G.J.	208/230-1-60	19.2	19.2	1	1.44	4.20	24.8	29.6	45
1248	G.J.	208/230-1-60	32.0	32.0	1	1.44	5.90	39.3	47.3	70
1872	G.J.	208/230-1-60	32.0	32.0	1	1.44	7.50	40.9	48.9	80

Model	0930	1248	1872
Compressor (1 Each)	Rotary	Scroll	Scroll
Factory Charge HFC/HFO-454B - (oz.)	32	56	58
Refrigerant Leak Detection System	O	O	O
Number of Sensors	2	2	2
EC Motor and Blower			
Fan Motor, hp [W]	1/2 [373]	3/4 [559]	1 [746]
Blower Wheel Size (Dia x W), in [mm]	9 x 7 [229 x 178]	11 x 10 [279 x 254]	11 x 10 [279 x 254]
Loop Water Connection Size			
Swivel - Residential Class	1"	1"	1"
Vertical Upflow			
Air Coil Dimensions (H x W), in [mm]	28 x 20 [711 x 542]	32 x 25 [813 x 635]	32 x 25 [813 x 635]
Standard Filter - 2" [25.4mm]	28 x 24 [712 x 610]	32 x 29.5 [813 x 749]	32 x 29.5 [813 x 749]
Pleated MERV11 Throwaway, in [mm]			
Weight - Operating, lbs [kg]	230 [104]	319 [145]	322 [146]
Weight - Packaged, lbs [kg]	240 [109]	329 [149]	332 [151]
Horizontal			
Air Coil Dimensions (H x W), in [mm]	18 x 31 [457 x 787]	20 x 40 [508 x 1,016]	20 x 40 [508 x 1,016]
Standard Filter - 2" [25.4mm]		1 - 18 x 20 [457 x 508]	1 - 18 x 20 [457 x 508]
Pleated MERV11 Throwaway, in [mm]	2 - 18 x 18 [457 x 457]	1 - 20 x 24 [508 x 610]	1 - 20 x 24 [508 x 610]
Weight - Operating, lbs [kg]	248 [112]	357 [162]	361 [164]
Weight - Packaged, lbs [kg]	258 [117]	367 [166]	371 [168]

Notes:

- All dimensions displayed above are in inches unless otherwise marked.
- All units have electronic expansion device (EEV) and 1/2-inch and 3/4-inch electrical knockouts.
- The Stainless Steel Condensate Drain Connection is 3/4-inch MPT.
- FPT = Female Pipe Thread, MPT = Male Pipe Thread
- O = Optional, R = Required

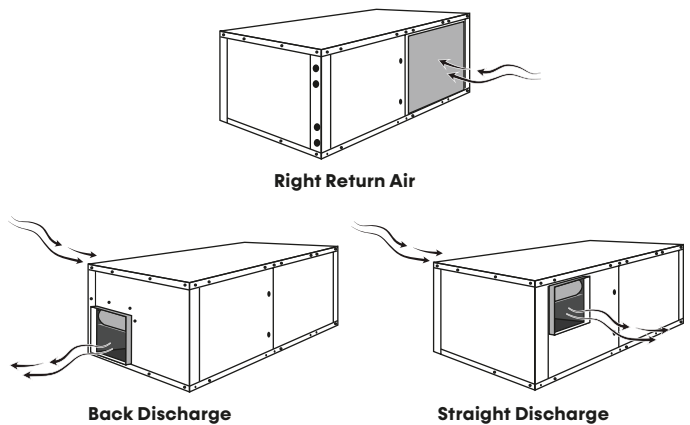
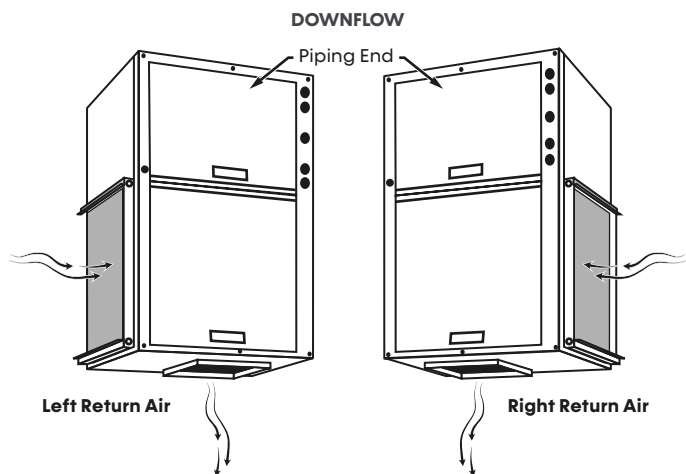
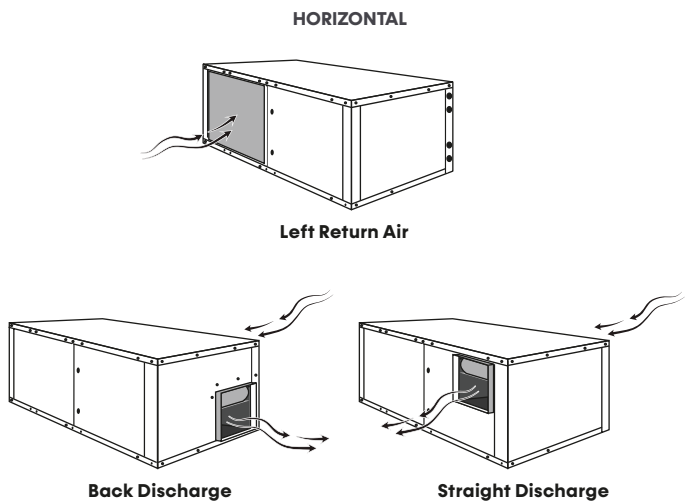
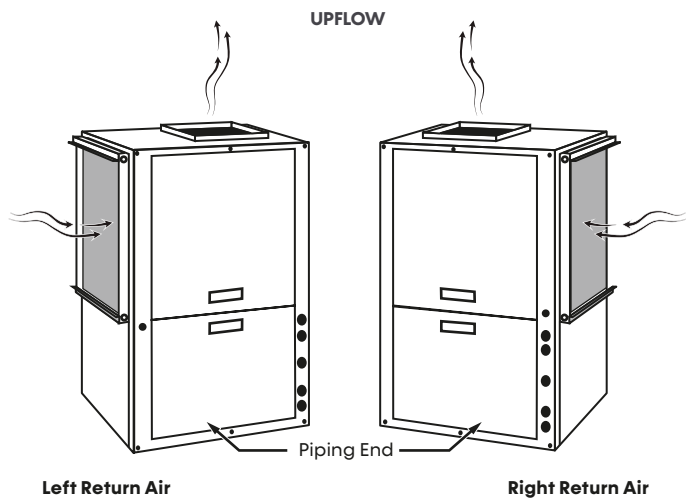
Unit Maximum Water Working Pressure

Options	Max Pressure PSIG [kPa]
Base Unit	145 [999]
Variable Speed Pump (VSP)	145 [999]

- Use the lowest maximum pressure rating when multiple options are combined.

Dimensional Data Airflow Configurations

Models:
SV
0930-1872



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Dimensional Data

Dimensional Tables

Models:
SV
0930-1872

Cabinet Dimensions (inch)

Model	Cabinet Config	Depth/Length	Width	Height
		A	B	C
SV0930	V	25.6	22.5	53.0
	D	25.6	22.4	56.5
	H	62.2	22.5	22.3
SV1248	V	30.6	25.5	57.0
	D	25.4	30.6	60.5
	H	76.2	25.5	22.3
SV1872	V	30.6	25.5	57.0
	D	25.4	30.6	60.5
	H	76.2	25.5	22.3

Electrical Knockouts (inch)

Model	Cabinet Config	Power Supply	Low Voltage	Ext Pump
		J KO 3/4"	K KO 1/2"	L KO 1/2"
SV0930	V	4.6	8.6	10.6
	D	17.6	13.6	11.6
	H	4.6	8.6	10.6
SV1248	V	4.6	8.6	10.6
	D	17.6	13.6	11.6
	H	4.6	8.6	10.6
SV1872	V	4.6	8.6	10.6
	D	17.6	13.6	11.6
	H	4.6	8.6	10.6

Water Connections (inch)

Model	Cabinet Config	Water Connections				
		Water In		Condensate	Loop Water (Swivel FPT)	Condensate Drain Pan Fitting (MPT)
		D	E	F		
SV0930	V	3.9	8.4	23.6	1"	3/4"
	D	18.4	13.9	4.6	1"	3/4"
	H	3.9	8.4	0.7	1"	3/4"
SV1248	V	3.9	8.4	23.5	1"	3/4"
	D	18.4	13.9	4.6	1"	3/4"
	H	3.9	8.4	0.7	1"	3/4"
SV1872	V	3.9	8.4	23.5	1"	3/4"
	D	18.4	13.9	4.6	1"	3/4"
	H	3.9	8.4	0.7	1"	3/4"

Notes:

- Commercial water connections are female pipe thread (FPT) fittings
- Residential water connections are swivel connections

Discharge and Return Connections (inch)

Model	Cabinet Config	Discharge Connection Duct Flange Installed						Return Connection Using Std. Deluxe Filter Rack				
		M	N	Supply Height	Supply Width	Q	Hor.	Vert.	Hor.	Return Width	Return Height	U
				O	P		R	R	V	S	T	
SV0930	V	7.2	5.8	14.0	14.0	4.9	-	1.7		22.2	26.1	1.6
	D	7.2	5.8	14.0	14.0	4.9	-	1.7		22.2	26.1	24.2
	H	3.6	1.7	15.4	12.4	3.6	5.0	3.9		34.0	16.7	2.0
SV1248	V	6.4	6.3	18.0	18.0	5.3	-	1.7		27.1	30.1	1.6
	D	6.4	6.3	18.0	18.0	5.3	-	1.7		27.1	30.1	24.3
	H	3.1	1.2	19.0	17.4	3.1	2.0	2.6		39.5	18.1	3.2
SV1872	V	6.4	6.3	18.0	18.0	5.3	-	1.7		27.1	30.1	1.6
	D	6.4	6.3	18.0	18.0	5.3	-	1.7		27.1	30.1	24.3
	H	3.1	1.2	19.0	17.4	3.1	2.0	2.6		39.5	18.1	3.2

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Corner Weights (lb)

Model	Left - Front	Right - Front	Left - Back	Right/Back
SV0930	77.0	41.0	27.0	85.0
SV1248	89.0	87.0	87.0	55.0
SV1872	90.0	88.0	88.0	56.0

Hanger Dimensions (inch)

Model	Cabinet Config	Unit Hanger Detail		
		X	Y	Z
SV0930	H	62.0	24.5	20.25
SV1248		76.1	27.0	23.3
SV1872		76.1	27.0	23.3

Dimensional Data

Dimensional Tables

Models:
SV
0930-1872

Cabinet Dimensions (cm)

Model	Cabinet Config	Depth/Length	Width	Height
		A	B	C
SV0930	V	65.0	57.2	134.6
	D	65.0	56.9	143.5
	H	158.0	57.2	56.6
SV1248	V	77.7	64.8	144.8
	D	64.5	77.7	153.7
	H	193.5	64.8	56.6
SV1872	V	77.7	64.8	144.8
	D	64.5	77.7	153.7
	H	193.5	64.8	56.6

Electrical Knockouts (cm)

Model	Cabinet Config	Power Supply	Low Voltage	Ext Pump
		J KO 3/4"	K KO 1/2"	L KO 1/2"
SV0930	V	11.7	21.8	26.9
	D	44.7	34.5	29.5
	H	11.7	21.8	26.9
SV1248	V	11.7	21.8	26.9
	D	44.7	34.5	29.5
	H	11.7	21.8	26.9
SV1872	V	11.7	21.8	26.9
	D	44.7	34.5	29.5
	H	11.7	21.8	26.9

Water Connections (cm)

Model	Cabinet Config	Water Connections				
		Water In		Condensate	Loop Water (Swivel FPT)	Condensate Drain Pan Fitting (MPT)
		D	E	F		
SV0930	V	9.9	21.3	59.9	1"	3/4"
	D	46.7	35.3	11.7	1"	3/4"
	H	9.9	21.3	1.8	1"	3/4"
SV1248	V	9.9	21.3	59.7	1"	3/4"
	D	46.7	35.3	11.7	1"	3/4"
	H	9.9	21.3	1.8	1"	3/4"
SV1872	V	9.9	21.3	59.7	1"	3/4"
	D	46.7	35.3	11.7	1"	3/4"
	H	9.9	21.3	1.8	1"	3/4"

Notes:

- Commercial water connections are female pipe thread (FPT) fittings
- Residential water connections are swivel connections

Discharge and Return Connections (cm)

Model	Cabinet Config	Discharge Connection Duct Flange Installed						Return Connection Using Std. Deluxe Filter Rack				
		M	N	Supply Height	Supply Width	Q	Hor.	Vert.	Hor.	Return Width	Return Height	U
				O	P		R	R	V	S	T	
SV0930	V	18.3	14.7	35.6	35.6	12.4	-	4.3		56.4	66.3	4.1
	D	18.3	14.7	35.6	35.6	12.4	-	4.3		56.4	66.3	61.5
	H	9.1	4.3	39.1	31.5	9.1	12.7	9.9		86.4	42.4	5.1
SV1248	V	16.3	16.0	45.7	45.7	13.5	-	4.3		68.8	76.5	4.1
	D	16.3	16.0	45.7	45.7	13.5	-	4.3		68.8	76.5	61.7
	H	7.9	3.0	48.3	44.2	7.9	5.1	6.6		100.3	46.0	8.1
SV1872	V	16.3	16.0	45.7	45.7	13.5	-	4.3		68.8	76.5	4.1
	D	16.3	16.0	45.7	45.7	13.5	-	4.3		68.8	76.5	61.7
	H	7.9	3.0	48.3	44.2	7.9	5.1	6.6		100.3	46.0	8.1

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Corner Weights (kg)

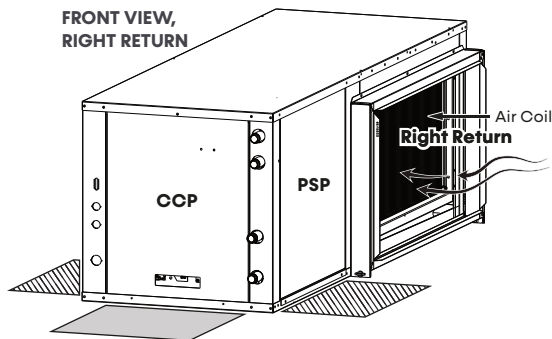
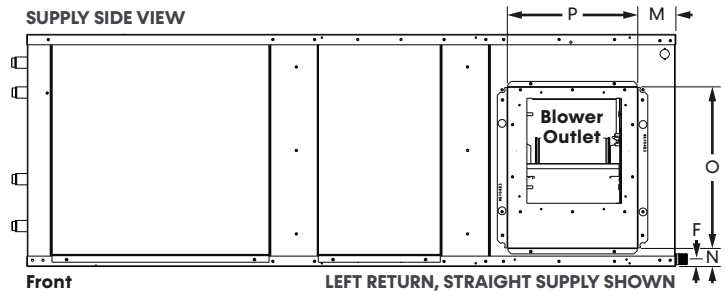
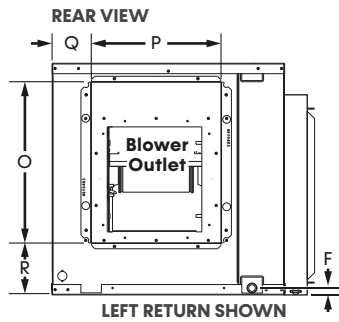
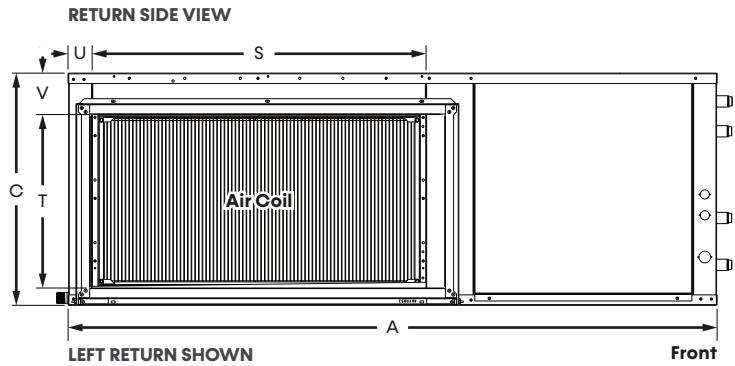
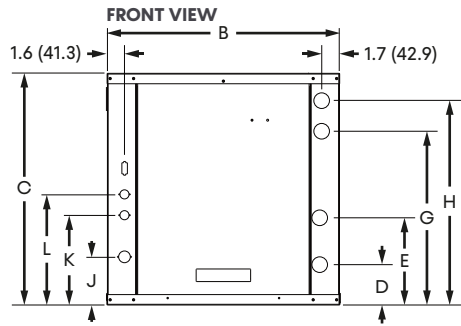
Model	Left - Front	Right - Front	Left - Back	Right/Back
SV0930	34.9	18.6	12.2	38.6
SV1248	40.4	39.5	39.5	24.9
SV1872	40.8	39.9	39.9	25.4

Hanger Dimensions (cm)

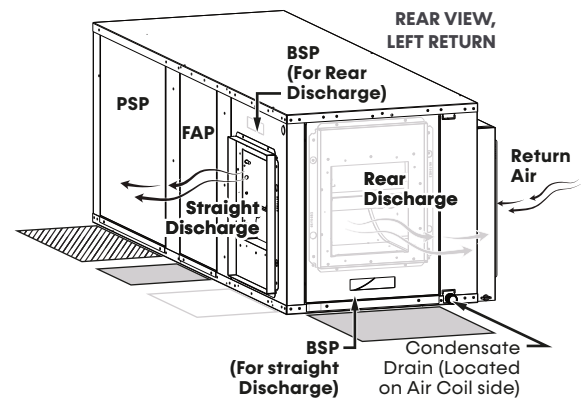
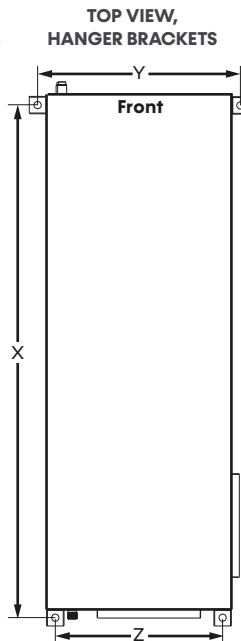
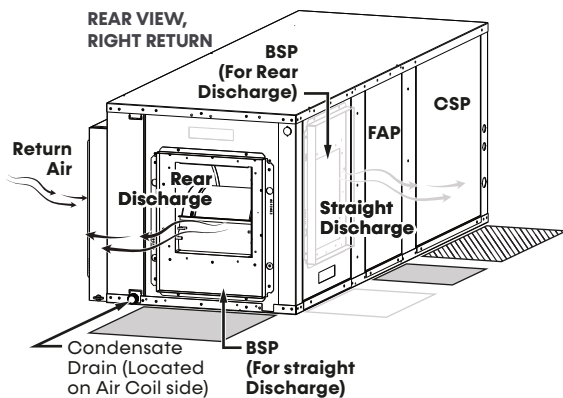
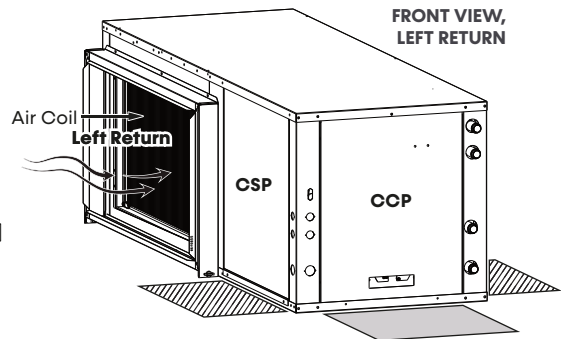
Model	Cabinet Config	Unit Hanger Detail		
		X	Y	Z
SV0930	H	157.5	62.2	51.4
SV1248		193.3	68.6	59.2
SV1872		193.3	68.6	59.2

Dimensional Data Horizontal

Models:
SV
0930-1872



PANELS, AIRFLOW, AND SERVICE ACCESS



LEGEND

BSP = BLOWER SERVICE PANEL
CCP = CONTROL/COMPRESSOR ACCESS PANEL
CSP = COMPRESSOR SERVICE PANEL
FAP = FILTER DRIER ACCESS PANEL
PSP = PUMP AND FLOW METER SERVICE PANEL

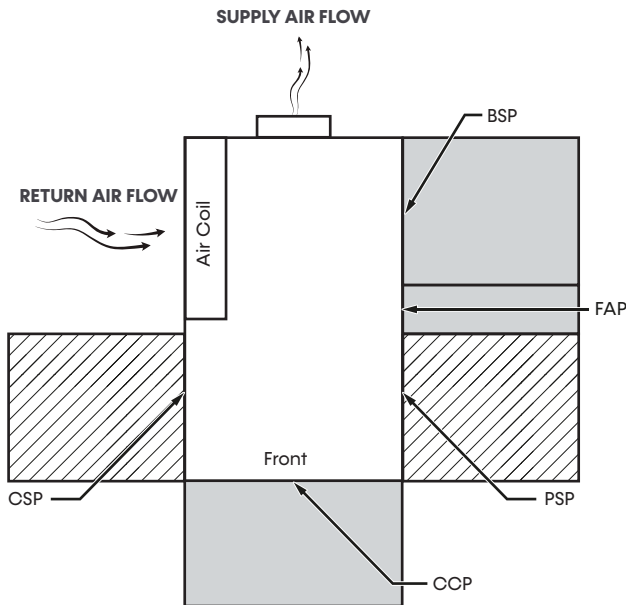
= 2' (61 cm) Service Access
 = 2' (61 cm) Optional Service Access
 = Indicates Service Access is required for Discharge or optional for BSP (See above)

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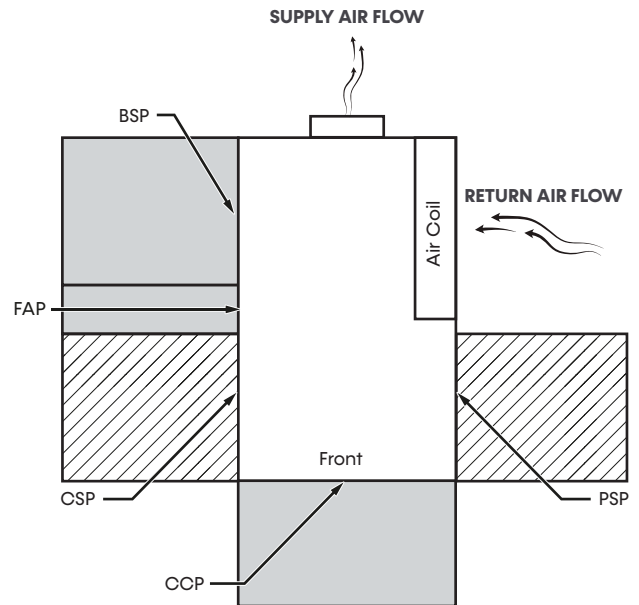
Dimensional Data Horizontal Service Access

Models:
SV
0930-1872

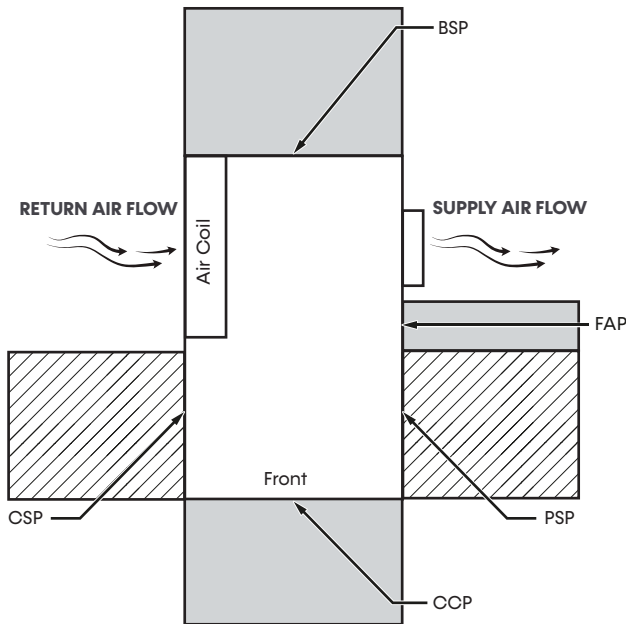
LEFT RETURN BACK DISCHARGE



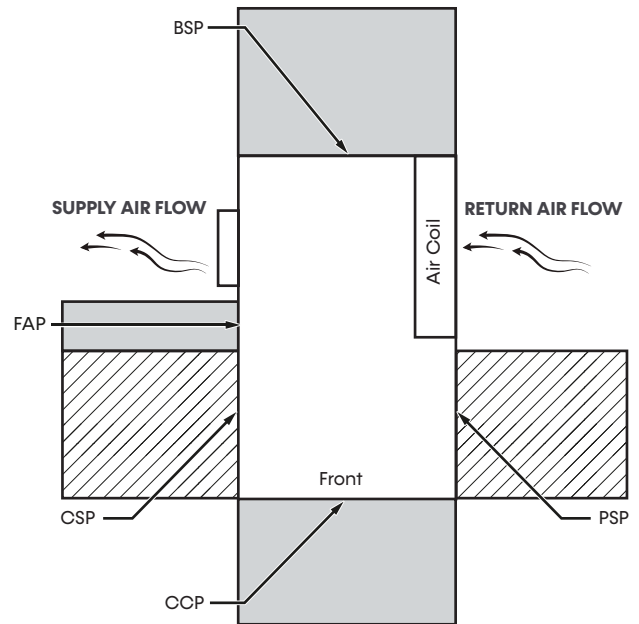
RIGHT RETURN BACK DISCHARGE



LEFT RETURN STRAIGHT DISCHARGE



RIGHT RETURN STRAIGHT DISCHARGE



NOTES

1. While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
2. CCP and BSP requires 2-feet of service access.
3. Blower service access is through back panel on straight discharge units or through panel opposite air coil on back discharge units.
4. OSP are removable panels that provide additional access to the units interior. Clear access to OSP panels is not required and they are not to be used in place of the mandatory CCP and BSP panels.

 = Mandatory Service Access 2-foot (61 cm)

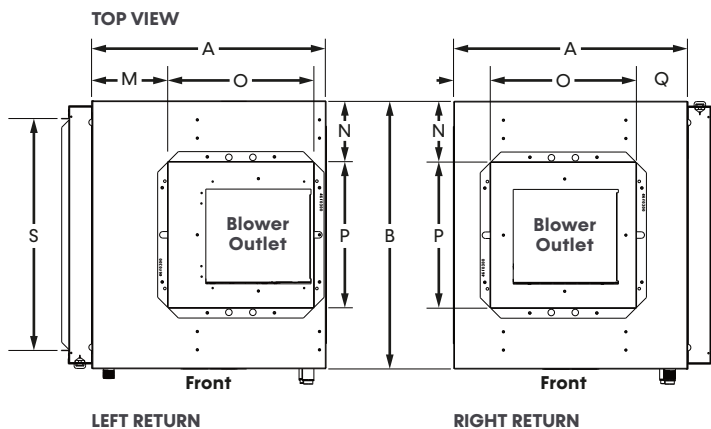
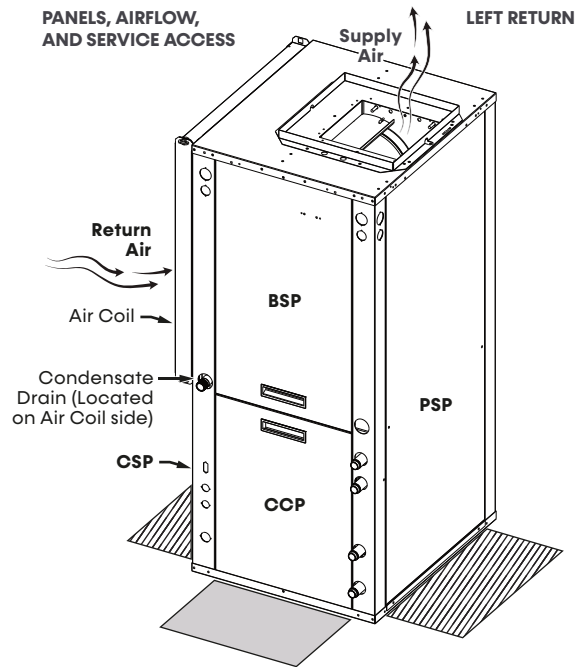
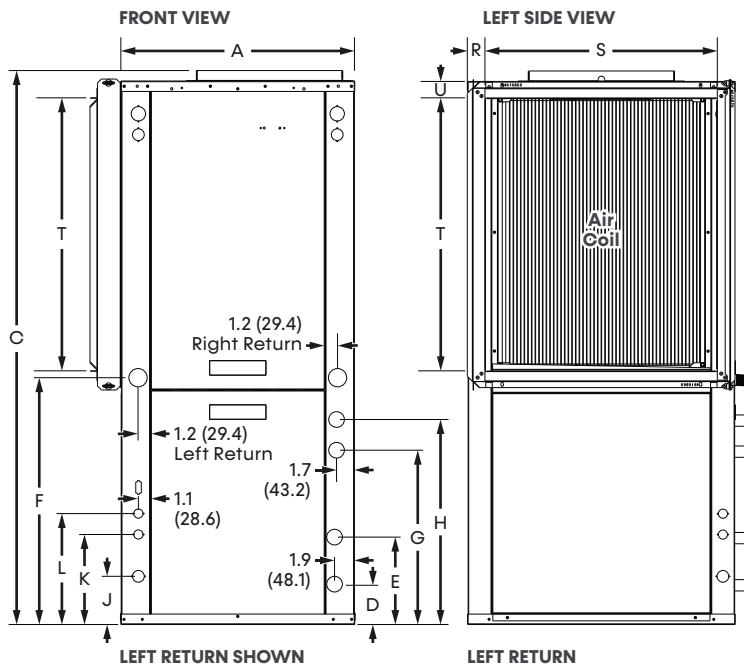
 = Optional Service Access 2-foot (61 cm)

LEGEND

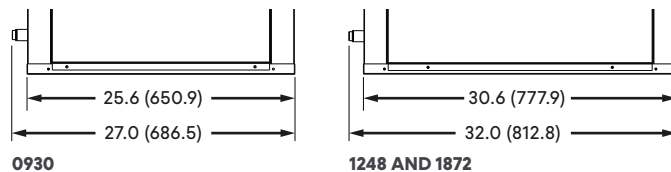
BSP = BLOWER SERVICE PANEL
CCP = CONTROL/COMPRESSOR ACCESS PANEL
CSP = COMPRESSOR SERVICE PANEL
FAP = FILTER DRIER ACCESS PANEL
PSP = PUMP AND FLOW METER SERVICE PANEL

Dimensional Data Vertical Upflow

Models:
SV
0930-1872



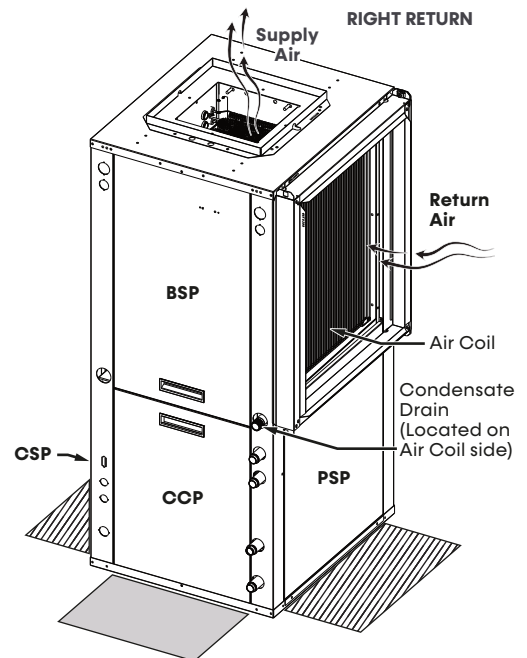
**UNIT AND CONNECTIONS DEPTH
RIGHT SIDE VIEW, BOTTOM DETAIL SHOWN**



LEGEND

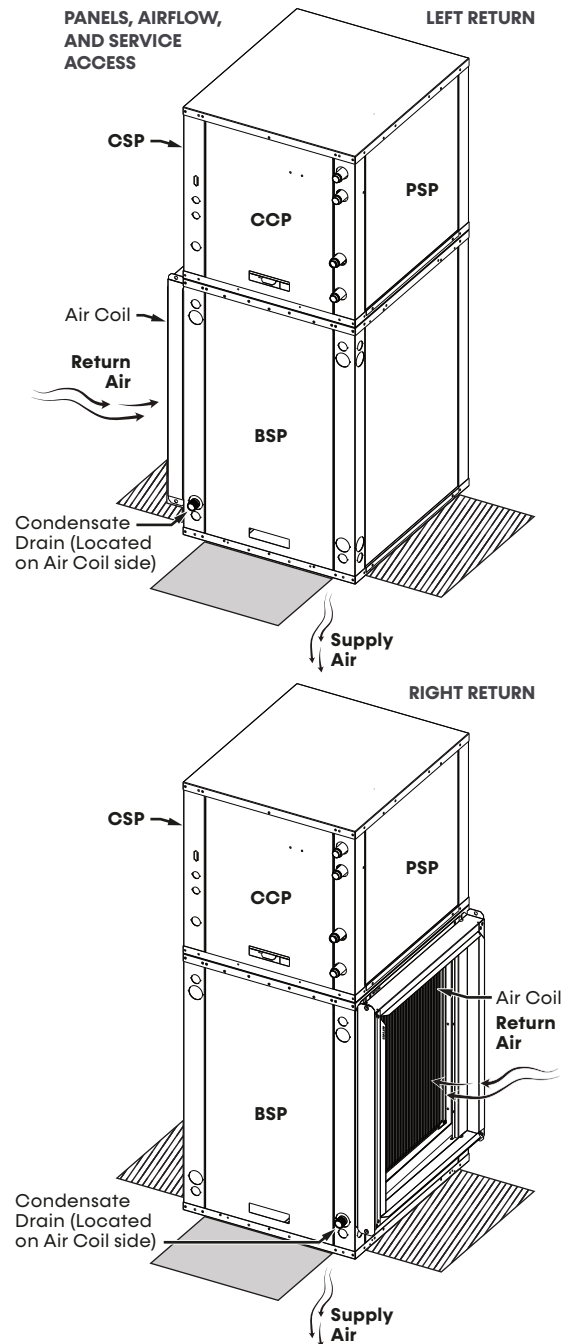
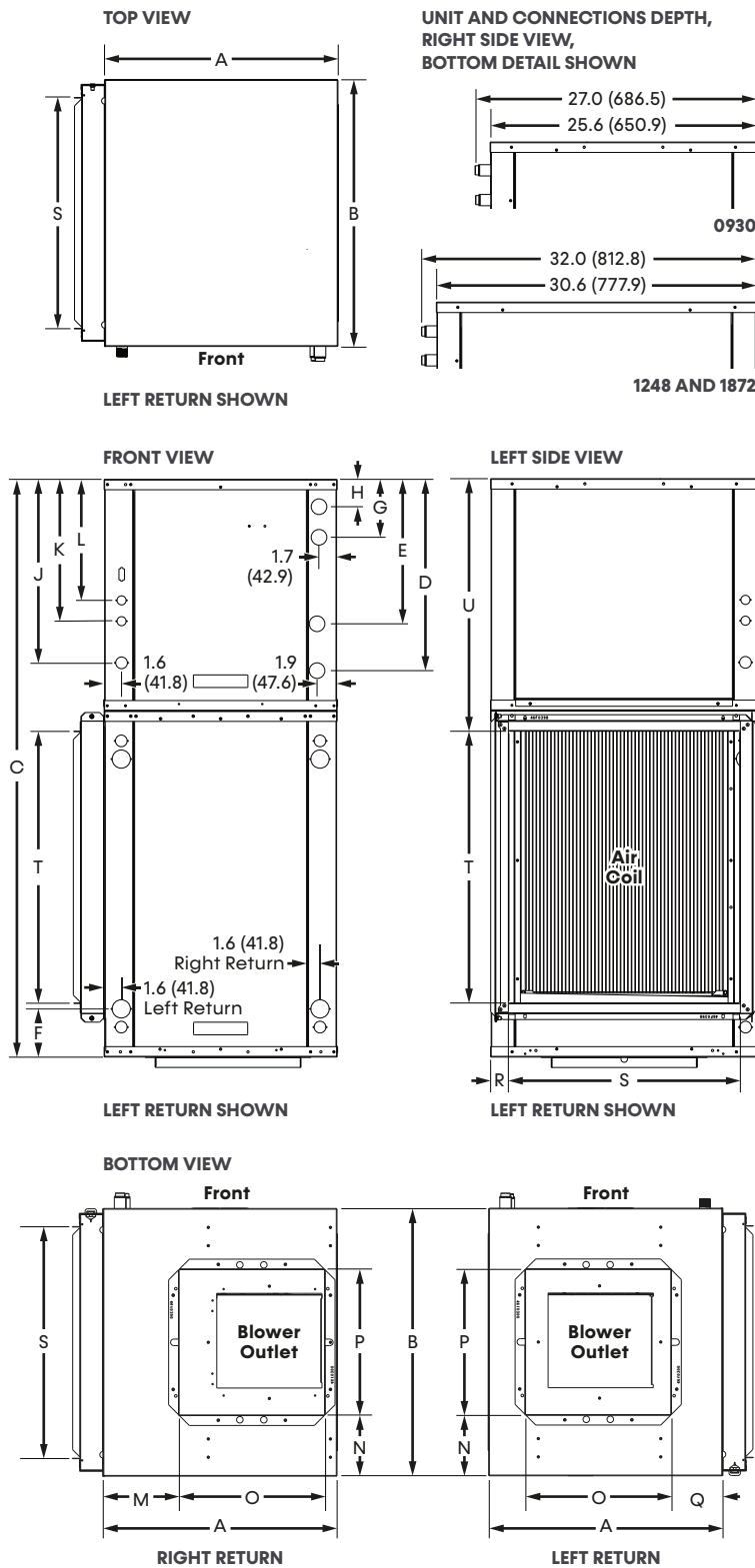
BSP = BLOWER SERVICE PANEL
CCP = CONTROL/COMPRESSOR ACCESS PANEL
CSP = COMPRESSOR SERVICE PANEL
PSP = PUMP AND FLOW METER SERVICE PANEL

= 2' (61 cm) Service Access
 = 2' (61 cm) Optional Service Access



Dimensional Data Vertical Downflow

Models:
SV
0930-1872



LEGEND

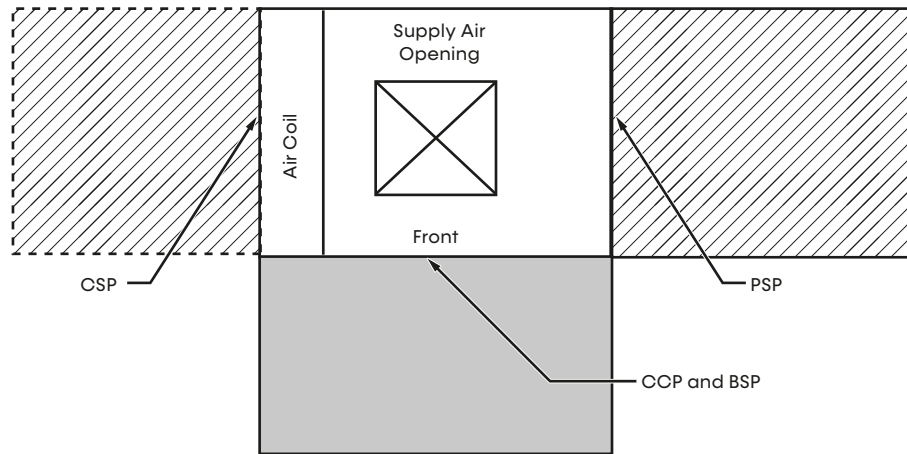
BSP = BLOWER SERVICE PANEL
CCP = CONTROL/COMPRESSOR ACCESS PANEL
CSP = COMPRESSOR SERVICE PANEL
PSP = PUMP AND FLOW METER SERVICE PANEL

 = 2' (61 cm) Service Access
 = 2' (61 cm) Optional Service Access

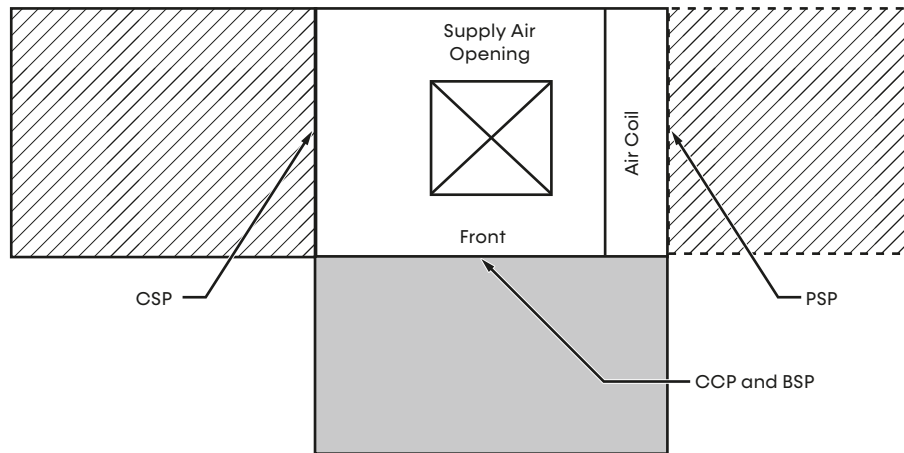
Dimensional Data Vertical Service Access

Models:
SV
0930-1872

LEFT RETURN



RIGHT RETURN



NOTES

1. While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
2. Front and side access is preferred for service access. However, all components may be serviced from the front access panel if side access is not available.
3. OSP are removable panels that provide additional access to the units interior. Clear access to OSP panels is not required and they are not to be used in place of the mandatory CCP and BSP panels.
4. Top supply air is shown, the same clearances apply to bottom supply air units.

-  = Mandatory Service Access 2 feet (61 cm)
-  = Optional Service Access 2 feet (61 cm)

LEGEND

- BSP** = BLOWER SERVICE PANEL
- CCP** = CONTROL/COMPRESSOR ACCESS PANEL
- CSP** = COMPRESSOR SERVICE PANEL
- PSP** = PUMP AND FLOW METER SERVICE PANEL

Blower Performance Data EC Motor 0930

Models:
SV
0930-1872

CV EC MOTOR ADVANTAGE

A major benefit of the CV EC motor over other blower motor types is its ability to adjust airflow remotely through the iGate 2 web portal, mobile app, or directly at the unit with the Wireless Service Tool. Airflow levels can be adjusted in increments of 25 CFM from the unit's minimum and maximum CFM range (see the **CV EC motor configuration** table for details).

Blower Performance: CV EC Blower Motor Standard Unit

Model	Max ESP (in wg)	Fan Motor (hp)	Range	Capacity	Cooling Mode	Dehumid Mode	Heating Mode	Fan Only Mode	Aux Emergency Mode
0930	0.30 at 1125; 0.6 at 1000	1/2	Default	9,000	300	275	300	350	850
				12,000	425	375	425		
				15,000	500	450	500		
				18,000	600	525	600		
				21,000	700	600	700		
				24,000	775	675	775		
				27,000	875	750	875		
				30,000	950	800	950		
			Minimum	9,000	225	225	200	225	700
				12,000	275	275	250		
				15,000	325	325	300		
				18,000	425	425	375		
				21,000	500	500	450		
				24,000	575	575	525		
				27,000	650	650	600		
				30,000	750	750	700		
			Maximum	9,000	375	375	375	1,125	1,125
				12,000	500	500	500		
				15,000	625	625	625		
				18,000	750	750	750		
				21,000	850	850	850		
				24,000	975	975	975		
				27,000	1,075	1,075	1,075		
				30,000	1,125	1,125	1,125		

- Blower performance data is based on the lowest nameplate voltage setting.
- Blower performance is based on a wet coil with clean 1-inch filter.
- Blower performance is based on operating conditions of 80°F DB and 67°F WB.
- Airflow is controller within ±5% up to max ESP shown with wet coil.
- Cells in grey - option not available

Table continued on next page

Blower Performance Data EC Motor 1248

Models:
SV
0930-1872

Table continued from previous page

Model	Max ESP (in wg)	Fan Motor (hp)	Range	Capacity	Cooling Mode	Dehumid Mode	Heating Mode	Fan Only Mode	Aux Emergency Mode
1248	1.0 at 1800	3/4	Default	12,000	400	375	400	450	1,350
				16,000	525	475	525		
				20,000	650	575	650		
				32,000	1,025	900	1,025		
				36,000	1,200	1,000	1,200		
				40,000	1,275	1,075	1,275		
				44,000	1,400	1,175	1,400		
				48,000	1,525	1,275	1,525		
			Minimum	12,000	300	300	300	300	1,200
				16,000	375	375	375		
				20,000	475	475	450		
				32,000	775	775	725		
				36,000	875	875	825		
				40,000	975	975	925		
				44,000	1,075	1,075	1,000		
				48,000	1,175	1,175	1,100		
			Maximum	12,000	500	500	500	1,800	1,800
				16,000	650	650	650		
				20,000	825	825	825		
				32,000	1,250	1,250	1,250		
				36,000	1,400	1,400	1,400		
				40,000	1,550	1,550	1,550		
				44,000	1,675	1,675	1,675		
				48,000	1,800	1,800	1,800		

- Blower performance data is based on the lowest nameplate voltage setting.
- Blower performance is based on a wet coil with clean 1-inch filter.
- Blower performance is based on operating conditions of 80°F DB and 67°F WB.
- Airflow is controller within ±5% up to max ESP shown with wet coil.
- Cells in grey - option not available

Table continued on next page

Blower Performance Data EC Motor 1872

Models:
SV
0930-1872

Table continued from previous page

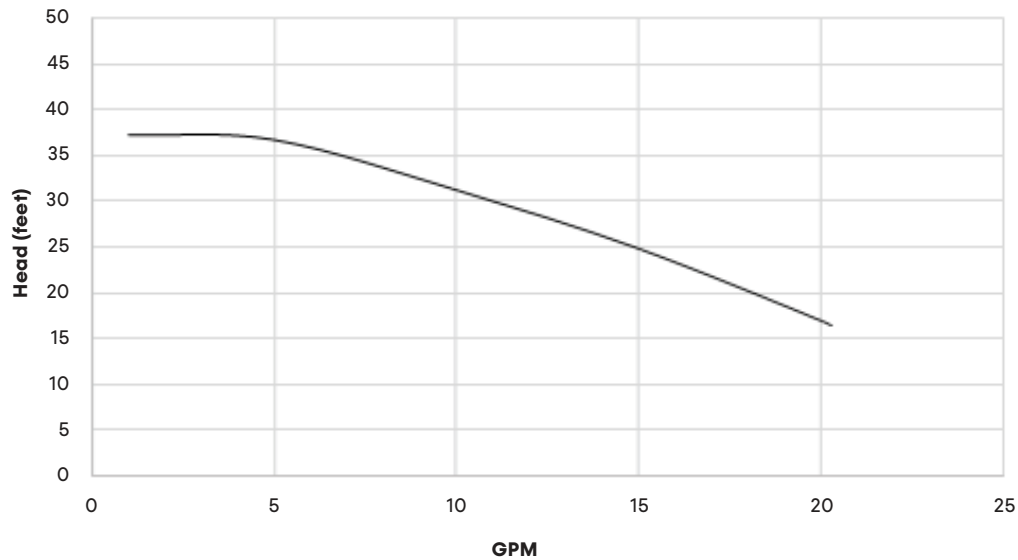
Model	Max ESP (in wg)	Fan Motor (hp)	Range	Capacity	Cooling Mode	Dehumid Mode	Heating Mode	Fan Only Mode	Aux Emergency Mode
1872	0.45 at 2250; 0.75 at 2000	1	Default	18,000	600	525	600	700	1,500
				24,000	775	675	775		
				30,000	975	825	975		
				36,000	1,150	1,000			
				42,000	1,325	1,150			
				48,000	1,525	1,325	1,525		
				54,000	1,700	1,475	1,700		
				60,000	1,875	1,625	1,875		
				66,000			2,000		
				72,000			2,000		
			Minimum	18,000	425	425	375	425	1,350
				24,000	575	575	525		
				30,000	725	725	675		
				36,000	875	875			
				42,000	1,025	1,025			
				48,000	1,200	1,200	1,075		
				54,000	1,350	1,350	1,225		
				60,000	1,500	1,500	1,375		
				66,000			1,650		
				72,000			1,800		
			Maximum	18,000	750	750	750	2,250	2,250
				24,000	975	975	975		
				30,000	1,175	1,175	1,175		
				36,000	1,400	1,400			
				42,000	1,600	1,600			
				48,000	1,825	1,825	1,825		
				54,000	2,025	2,025	2,025		
				60,000	2,250	2,250	2,250		
				66,000			2,250		
				72,000			2,250		

- Blower performance data is based on the lowest nameplate voltage setting.
- Blower performance is based on a wet coil with clean 1-inch filter.
- Blower performance is based on operating conditions of 80°F DB and 67°F WB.
- Airflow is controller within ±5% up to max ESP shown with wet coil.
- Cells in grey - option not available

High Head Variable Pump Performance

Models:
SV
0930-1872

High Head Variable Pump with Check Valve Performance



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iGATE 2 COMMUNICATION – CLOUD CONNECTED, WEB-ENABLED INFORMATION GATEWAY TO MONITOR, CONTROL, AND DIAGNOSE YOUR SYSTEM

The Trilogy SV is equipped with industry-first iGate 2 communication information gateway that allows users to interact with their water-source system in easy-to-read clear language AND delivers improved reliability and efficiency by precisely controlling smart components.

Monitor/Configure: From the myUplink PRO website/mobile app paired with an AWC Thermostat or a Wireless Service Tool directly at the unit, installers can configure the following: airflow, unit family, size, accessory configuration, and demand reduction (optional, to limit unit operation during peak times). Users can look up the current system status, temperature sensor readings, and operational status of the blower.

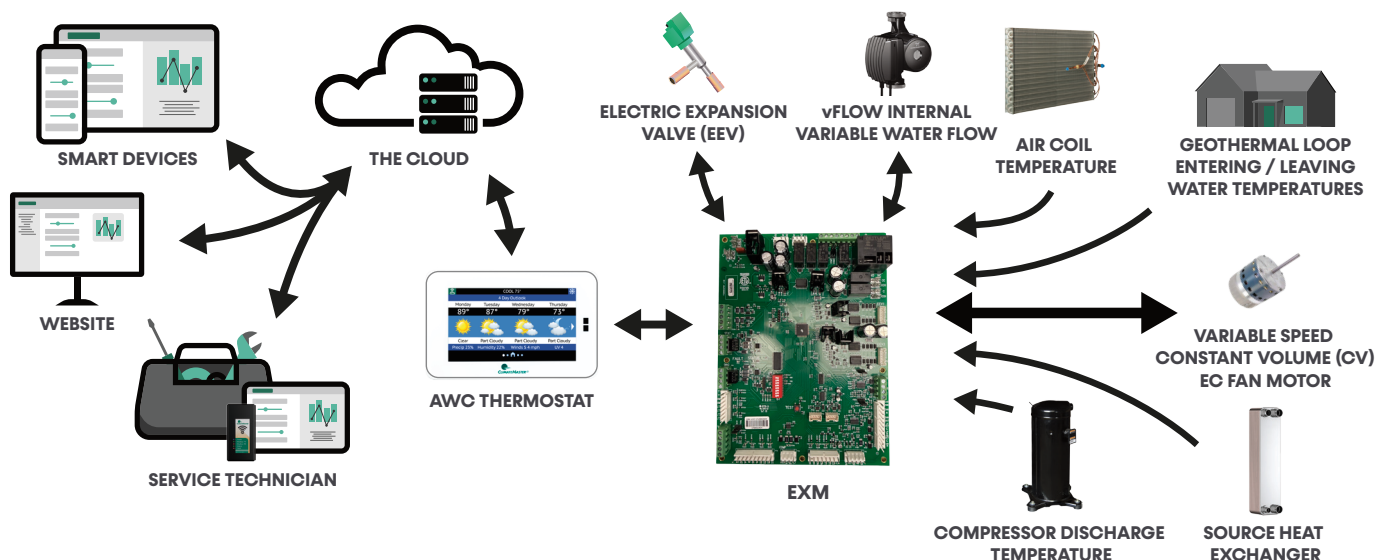
Precise Control: EXM enables intelligent, two-way communication between the EXM and smart components like the AWC Thermostat and Wireless Service Tool. EXM uses information received from the smart components and temperature sensors to precisely control operation of the variable speed CV EC fan to deliver higher efficiency, reliability and increased comfort.

Diagnostics: iGate 2 takes diagnosing water-source heat pump units to a next level of simplicity, by providing a dashboard of system and fault information, in clear language, on the AWC Thermostat, Wireless Service Tool, and the web portal/mobile app on the internet.

iGate 2 Service Warnings notify the homeowner and contractor of a fault and displays fault descriptions by app notifications and email with possible causes. Additionally, the current system status can be viewed graphically on the web portal and mobile app.

In iGate 2 Service Mode, service personnel can access fault descriptions, see possible causes, and most importantly, see the conditions (temp, flow, i/o conditions, configuration) at the time of the fault. Manual Operation mode enables service personnel to manually command operation for any of the thermostat outputs, blower speed, to help troubleshoot specific components. Manual Operation mode can be conducted at the unit with an AWC Thermostat using the mobile app, using the Wireless Service Tool, or remotely with mobile app/website when the AWC Thermostat controls are used.

With an iGate 2 communicating system, users and contractors have a web-enabled gateway to system information never before available and exclusive to ClimateMaster products.

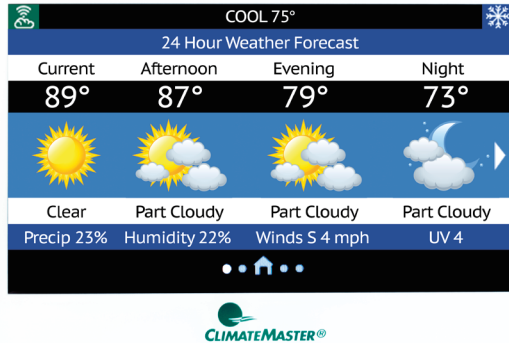


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iGate 2 Communicating (AWC) Thermostat

Models:
SV
0930-1872

iGATE 2 COMMUNICATION – CLOUD CONNECTED, WEB-ENABLED INFORMATION GATEWAY TO MONITOR, CONTROL, AND DIAGNOSE YOUR SYSTEM



The iGate 2 Communicating (AWC) Thermostat is innovating the future of comfort technology, one building at a time. The inspired design of the touch screen interface allows you to see real-time data for the efficiency and health of your system, with early warnings for potential system faults. The cloud based information gateway allows technicians to remotely diagnose system issues before occupants even know there is a problem. Control and monitor the system in your home or business from anywhere in the world with an easy to use app on your phone.

Features with Efficiency in Mind



Touchscreen Interface

A brilliantly customizable touchscreen monitor for simple control.



Seamless Integration

Between your AWC Thermostat and comfort system.



(Mobile) Remote System Control

Control temperature and schedule from anywhere in the world.



Early Fault Warnings

Alerts the building owner and the contractor of potential system faults in the future.



Remote Diagnostics

Enable the contractor to remotely diagnose system issues, adjust system settings, and reset faults.



Real-Time Operations Data and System Schematics

Access simply via the myUplink PRO Account and web portal to view system diagrams with current operating temperatures.



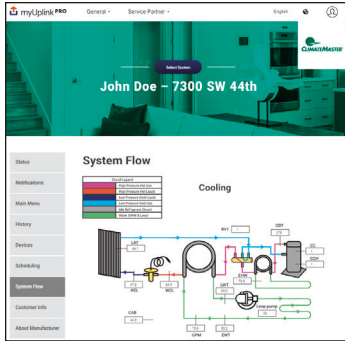
Revenue Stream

HVAC professionals can offer owners service contracts with remote monitoring and diagnostic capabilities without the large expense of a building management system.



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HVAC Professional | User Experience



iGate 2 establishes a two-way link between the AWC Thermostat and the cloud, adding significant value for both residential and commercial customers. Our new thermostat works with your customers' Tranquility comfort systems to

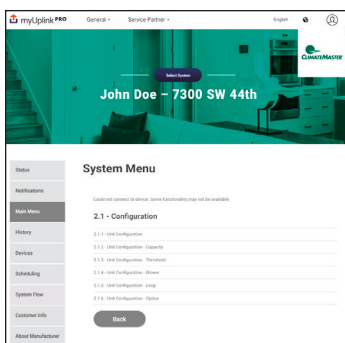
provide the most efficient link between their system and your services. The customizable monitoring from the myUplink PRO web portal or phone app account allows for continuous system monitoring, analysis, repair recognition, and early warnings for potential system faults that are sent to you and your customer.



Benefits

- Remote login from anywhere, anytime from any internet connected device
- View system fault history with possible root causes
- Information is available for contractors to troubleshoot and diagnose systems remotely
- Secure internet connection keeps homeowner information private
- Access thermostat(s) through Android and iPhone mobile apps

Homeowner | User Experience



iGate 2 advanced unit controls enable a two-way communication link for critical system information between the unit and the cloud. From any internet connected device or smart phone, building owners can control and monitor their systems

from anywhere in the world. iGate 2 offers building owners peace of mind their systems are operating at peak performance with advanced operational performance issue notifications. HVAC professionals get notifications when systems are operating out of range. They can log in remotely to check system faults, review current operating conditions, and diagnose issues remotely. This gives the HVAC technician the upper hand when showing up to perform service, saving time which in turn, saves money.



Benefits

- Communicates personal settings and reminders through the iGate 2 communication system
- Easy-to-use, full-color, high-resolution user interface
- Sleek, intuitive control panel
- Secure internet connection keeps your information private
- Contains unit model, serial number and your HVAC professionals contact information
- System monitoring automatically contacts HVAC system providers when service is needed

INTERNAL VARIABLE WATER FLOW

Industry-first, built-in vFlow replaces a traditionally inefficient, external component of the system (water circulation) with an ultra-high-efficient, variable-speed, internal water-flow system. This saves 70-80% on water circulation compared to traditional single-speed pump systems. Multi-unit installations are also much simpler with vFlow systems, as the units automatically adjust water flow across the system.

iGate 2 Controls facilitate communication between the Wireless Service Tool, EXM, sensors, and internal water pump to make true variable water flow a reality.

VARIATIONS

- **High Head Variable Pump:**
Multi-/individual-unit pumping (optional).

BENEFITS

- Easier and quicker unit installation as the flow control is built in to the unit.
- Superior reliability by varying the water flow to deliver more stable operation.
- Increased cost savings by varying the flow (and pump watt consumption) to match the unit's mode of operation.

INTERNAL COMPONENTS

All ClimateMaster water source heat pumps can be installed more easily and compactly than their predecessors because vFlow components are internal to the unit. They also save installing contractors labor and time by eliminating the need for an external flow regulator or a bulky external pumping module.

VARIABLE FLOW

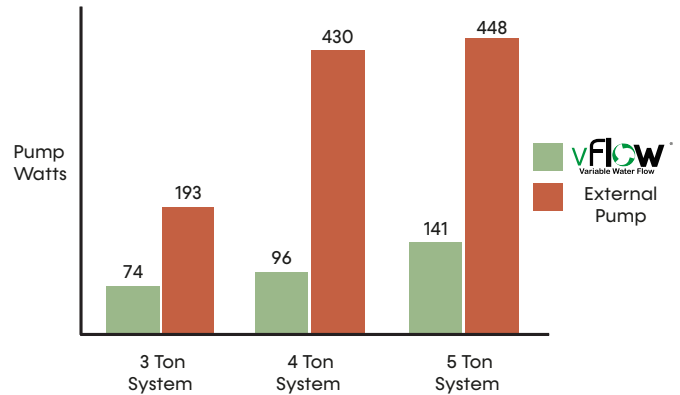
vFlow technology enables variable water flow through the unit, with the EXM adjusting the pump speed to maintain an installer-set loop dT. By controlling the water flow, the system is able to operate at its optimal capacity and efficiency. vFlow provides a lower flow rate for part load where units typically operate 80% of the time and a higher, more normal flow rate for full-load operation.



ENERGY SAVINGS WITH WATER CIRCULATION CONTROL

Units with vFlow deliver greater operating cost savings by varying the water flow to match the unit's operation (ex: lower water flow when unit is in part-load operation). Lowering the flow results in lower energy consumption by the water pump (=greater cost savings) in vFlow units (whether internal or external pump).

In applications using vFlow with internal variable-speed electronically commuted (EC) pump, the EC pump uses fewer watts than a fixed-speed (PSC) pump even at full load. The EC pump excels in energy savings in part load, saving 70-80% watts compared to fixed-speed pumps (see chart). The EC pump can operate with independent flow rates for both heating and cooling operations allowing for more energy savings.





Built for today's complex residential applications, Climazone is a natively communicating zoning solution designed specifically for ClimateMaster geothermal heat pumps.

It delivers intelligent system communication, flexible zoning, and simplified setup for contractors and homeowners alike.

INTELLIGENT COMMUNICATING COMFORT

Climazone communicates directly with EXM Advanced Variable Capacity Controls to optimize comfort and simplify setup throughout the home. iGate 2 Communicating (AWC) Thermostat—with or without remote sensors—provide intuitive zone monitoring and control.

SMART, SIMPLIFIED SETUP

Climazone automatically identifies connected unit type and configuration. When paired with two-stage equipment, the system recognizes minimum and maximum airflow requirements, reducing setup guesswork and streamlining commissioning.

FLEXIBLE ZONING CAPABILITIES

Support for up to 12 individual zones and up to three dampers per zone allows exceptional flexibility in system design and home layout customization. Climazone is powered by the unit transformer, while zone dampers use a separate external transformer.

NOTE: Two Climazone panels are required for 12-zone applications.

WHOLE-HOME COMFORT MANAGEMENT

Climazone improves comfort and efficiency by directing conditioned air only where it's needed, reducing overheating and overcooling in satisfied areas. Homeowners can customize comfort by zone and schedule conditioning based on occupancy throughout the day.

The system also manages small-zone demands intelligently. If a zone calls for conditioning below the unit's minimum airflow requirement, Climazone can automatically open additional zones up to 25% to maintain proper airflow and system performance.

REMOTE ACCESS AND CONTROL

Easily configure system settings through ClimateMaster's Wireless Service Tool with a streamlined graphical interface for fast setup. You can also remotely monitor and control Climazone through myUplink®, providing convenient access for homeowners and contractors.

ACCESSORIES AND OPTIONS

ClimaZone Zoning System

An optional communicating zoning system shall be provided for dividing the home into discreet zones. The zoning system shall be natively communicating to the unit control over 4-wire. The zoning system shall inherently know what unit it is connected to for min/max airflow and capacity staging. The zoning system shall be capable of handling up to twelve zones (with two ClimaZone panels), and up to three dampers per zone. iGate 2 Communicating (AWC) Thermostats are required for each zone. All configuration and diagnostics shall be made through the Wireless Service Tool.

iGate 2 Communicating (AWC) Thermostat (field installed)

An electronic communicating LCD thermostat shall be provided. The thermostat shall offer three stages of heating and two stages of cooling with precise temperature control and have a four-wire connection to the unit. The thermostat shall be capable of manual or automatic change-over operation and shall operate in standard or programmable mode. An integrated humidity control feature shall be included to control a humidifier and/or a dehumidifier. The thermostat shall include a utility demand reduction feature to be initiated by an independent time program or an external input.

The thermostat shall have a comprehensive installation setup menu to include configuration of the unit CFM for each mode of operation and configuration of the water flow rate through the unit, including variation of the water flow rate based on the stage of unit operation.

The thermostat shall display system faults with probable cause and troubleshooting guidance. Comprehensive service diagnostics menus shall display, system inputs, system outputs, configuration settings, Geo source inlet and outlet temperatures, compressor discharge line temperature, liquid line temperature, leaving air temperature, and entering potable water temperature (on units equipped with a Hot Water Generator). The thermostat shall allow for immediate manual control of all EXM outputs at the thermostat for rapid troubleshooting.

Auxiliary Heater (field installed)

An external, field-installed electric heater shall provide supplemental and/or emergency heating capability when used with the three-stage heating thermostat.

The Optional Extended Factory Service Labor Allowance Warranty offers additional length of term protection to the consumer by offsetting service labor costs for 10 years.

To order this warranty, contact your ClimateMaster distributor. This coverage must be purchased within 90 days of unit installation. See Limited Express Extended Labor Warranty Certificate RP852 for details.



CLIMATE MASTER, INC.
LIMITED EXPRESS WARRANTY AND LIMITATION OF LIABILITY AND
REMEDIES FOR RESIDENTIAL CLASS PRODUCTS WITH EXTENDED LABOR ALLOWANCE

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