



# WATER SOURCE HEAT PUMPS

## ALL MODELS

DESIGN WITH FLEXIBILITY

SmartSource<sup>®</sup>, Enfinity, and  
Vertical Stack Units  
1/2 to 25 tons



# Fully-featured configurable designs

	Horizontal				Vertical			
	SmartSource Compact	Enfinity	SmartSource	Enfinity Large Capacity	SmartSource Compact	Enfinity	SmartSource	Enfinity Large Capacity
								
<b>Models</b>	GCH (single stage) GDH (two stage)	CCH/CCW	GSH (single stage) GTH (two stage)	CCH/CCW	GCV	VFC/VFW	GSV (single stage) GTV (two stage)	LVC/LVW
<b>Size range</b>	1/2 to 6 tons (GCH) 2 to 6 tons (GDH)	1/2 to 6 tons	1/2 to 6 tons (GSH) 2 to 6 tons (GTH)	6 to 10 tons	1/2 to 6 tons	3/4 to 6 tons	1/2 to 6 tons (GSV) 2 to 6 tons (GTV)	6 to 25 tons
<b>Efficiency</b>	Good	Better	Best	Good	Good	Better	Best	Good
Max. EER/COP boiler/ tower @ full-load	16.8 / 5.7 (GCH) 15.7 / 4.9 (GDH)	17.6 / 5.6	19.2 / 6.0 (GSH) 20.3 / 6.4 (GTH)	15.5 / 4.9	14.7 / 5.2	17.0 / 5.4	19.2 / 6.0 (GSV) 20.3 / 6.4 (GTV) (	15.5 / 4.9
Max. EER/COP geothermal @ full-load	19.9 / 3.9 (GCH) 18.3 / 3.6 (GDH)	20.8 / 4	22.0 / 4.3 (GSH) 29.8 / 4.7 (GTH)	17.1 / 3.9	16.9 / 3.6	19.6 / 4.0	22.0 / 4.3 (GSV) 29.8 / 4.7 (GTV)	17.1 / 3.9
<b>Controls</b>	MicroTech® III microprocessor with t-stat or sensor control	MicroTech III microprocessor with t-stat or sensor control	MicroTech III microprocessor with t-stat or sensor control	MicroTech III microprocessor with t-stat or sensor control	MicroTech III microprocessor with t-stat or sensor control	MicroTech III microprocessor with t-stat or sensor control	MicroTech III microprocessor with t-stat or sensor control	MicroTech III microprocessor with t-stat or sensor control
<b>Diagnostics</b>	View window w/internally visible diagnostic LED status display	Externally visible diagnostic LED status display	Externally visible diagnostic LED status display	Externally visible diagnostic LED status display	View window w/internally visible diagnostic LED status display	Externally visible diagnostic LED status display	Externally visible diagnostic LED status display	Externally visible diagnostic LED status display
<b>Blower assembly</b>	Multi-speed PSC and EC blower motors	Multi-speed PSC and EC blower motors	Field-adjustable EC motor, removable orifice ring	Belt-drive with forward curved fan wheels, solid shaft, adjustable sheave and motor base	Multi-speed PSC and EC blower motors	Multi-speed PSC and EC blower motors	Field-adjustable EC motor, removable orifice ring	Belt-drive with forward curved fan wheels, solid shaft, adjustable sheave and motor base
<b>Filter</b>	1" disposable filter with filter rail	1" disposable filter	2" disposable filter with 4-sided filter rack	2" disposable filter	1" disposable filter with filter rail	1" disposable filter	2" disposable filter with 4-sided filter rack	1" disposable filters
<b>Compressor</b>	High efficiency scroll or rotary with double isolation for reduced sound and vibration	Rotary or scroll	High efficiency scroll or rotary with double isolation for reduced sound and vibration	Scroll	High efficiency scroll or rotary with double isolation for reduced sound and vibration	Rotary or scroll	High efficiency scroll or rotary with double isolation for reduced sound and vibration	Scroll
<b>Drain pan</b>	Double-sloped anti-microbial ABS plastic Overflow sensor	Double-sloping anti-microbial ABS plastic Overflow sensor	Stainless steel, sloped Overflow sensor Internal trap	Galvanized steel insulated and painted drain pan Overflow sensor	Sloped stainless steel Overflow sensor	Double-sloping anti-microbial ABS plastic Overflow sensor	Stainless steel, sloped Overflow sensor Internal trap	Galvanized steel insulated & painted drain pan Overflow sensor
<b>Water connections</b>	Flush-mounted female NPT connection	Flush-mounted female NPT connection	Flush-mounted female NPT connection	Flush-mounted female NPT connection	Flush-mounted female NPT connection	Flush-mounted female NPT connection	Flush-mounted female NPT connection	External female NPT pipe connections
<b>Cabinet</b>	Heavy gauge unpainted galvanized steel	Heavy gauge unpainted galvanized steel	Heavy gauge unpainted galvanized steel or powder coat textured paint with foil faced airside insulation	Heavy gauge unpainted galvanized steel	Heavy gauge unpainted galvanized steel Swing-open control box	Heavy gauge unpainted galvanized steel	Heavy gauge unpainted galvanized steel or powder coat textured paint with foil faced airside insulation	Heavy gauge unpainted galvanized steel
<b>Unit options</b>	Geothermal operation Four dehumidification options Waterside economizer Non-fused disconnect Insulation options Coated coils Deluxe sound package 5-yr extended warranty MERV 8 and 13 filters BACnet® and LONWORKS®	Geothermal operation 2" filter rack Flow control hose kit EC motor Low static motor Coated coils Sound package 5-yr extended warranty Stainless steel drain pan BACnet and LONWORKS Non-fused disconnect	Field-installed electric heater Geothermal operation Four dehumidification options Waterside economizer Factory-mounted loop pumps Non-fused disconnect Insulation options Coated coils Deluxe sound package 5-yr extended warranty 2-way motorized valve MERV 8 and 13 filters Flow control valve BACnet and LONWORKS Low leakage filter rack	Geothermal operation Stainless steel drain pan 4" filter rack MERV 8 or 13 filters Coated coils 5-yr extended warranty Flow control hose kit BACnet and LONWORKS Waterside economizer Hot gas reheat VFD w/HGBP	Geothermal operation Four dehumidification options Waterside economizer Non-fused disconnect Insulation options Coated coils Deluxe sound package 5-yr extended warranty MERV 8 and 13 filters BACnet and LONWORKS 2-way motorized valve Constant torque EC motor Constant CFM EC motor Hydronic heat 2" and 4" 4-sided filter rack	Factory-installed electric heat coil Geothermal operation Hot gas reheat VFD w/HGBP 2" filter rack EC motor Low static motor Coated coils Sound package 5-yr extended warranty 2-way motorized valve Stainless steel drain pan BACnet and LONWORKS	Field-installed electric heater Geothermal operation Four dehumidification options Waterside economizer Factory-installed elect. heat coil Desuperheater coil Factory-mounted loop pumps Hydronic heat Non-fused disconnect Insulation options Coated coils Deluxe sound package 5-yr extended warranty 2-way motorized valve MERV 8 and 13 filters Flow control valve BACnet and LONWORKS Low leakage filter rack	Geothermal operation High static fan motor Field-installed 2" filter rack with MERV 8 filter 4" filter rack with MERV 13 filter Stainless steel drain pan Coated coils 5-yr extended warranty Flow control hose kit BACnet and LONWORKS Waterside economizer Hot gas reheat

# Fully-featured configurable designs

	Other		
	Vertical Stack	Enfinity Console	SmartSource DOAS
			
<b>Models</b>	VHC/VHF	MHC/MHW	GOV
<b>Size range</b>	3/4 to 3 tons	1/2 to 1-1/2 tons	800 to 2400 CFM
<b>Efficiency</b>	Good	Best	Best
Max. EER/COP boiler/ tower @ full-load	15.2 / 5.1	14.9 / 5.0	6.6 ISMRE / 5.1 IS COP
Max. EER/COP geothermal @ full-load	17.6 / 3.5	17.0 / 3.4	7.1 ISMRE / 3.7 IS COP
<b>Controls</b>	MicroTech III microprocessor with t-stat or sensor control	MicroTech III microprocessor with t-stat or sensor control	MicroTech microprocessor with integral control
<b>Diagnostics</b>	Externally visible diagnostic LED status display	Side panel diagnostic LED status display	Unit mounted user interface keypad with 4-line digital display
<b>Blower assembly</b>	2-speed PSC motor or variable speed EC motor and 4-position fan speed selector	Multi-speed PSC blower motor and cross flow tangential fan	Shaftless blower with integral EC motor
<b>Filter</b>	1" disposable filters	1/2" disposable filter	2" MERV 8 filter with low-leak filter rack
<b>Compressor</b>	Rotary or scroll	Rotary	Multi-stage tandem scroll compressors
<b>Drain pan</b>	Sloped anti-microbial ABS plastic primary drain pan, galvanized secondary	Double sloping anti-microbial ABS plastic	Stainless steel, sloped, overflow sensor
<b>Water connections</b>	Male JIC connections	5/8" OD copper connections	Flush-mounted female NPT connection
<b>Cabinet</b>	Heavy gauge unpainted galvanized steel	18-20 gauge steel with polyurethane powder coat finish	Heavy gauge unpainted galvanized steel with closed cell foam insulation
<b>Unit options</b>	<ul style="list-style-type: none"> <li>Geothermal operation</li> <li>EC motor</li> <li>Stainless steel drain pan</li> <li>Coated coils</li> <li>Factory installed risers</li> <li>5-yr extended warranty</li> <li>2-way motorized valve</li> <li>Multi-unit control module</li> <li>BACnet and LONWORKS</li> <li>Flow control valve</li> <li>Foam insulation</li> <li>Sound blanket</li> <li>Stainless steel secondary drain pan</li> <li>Fused disconnect switch</li> <li>Outside air damper</li> </ul>	<ul style="list-style-type: none"> <li>Geothermal operation</li> <li>Factory-installed electric heat coil</li> <li>Coated coils</li> <li>5-yr extended warranty</li> <li>2-way motorized valve</li> <li>BACnet and LONWORKS</li> <li>Low sill cabinet</li> <li>Slope-top or flat-top cabinet</li> <li>Boilerless electric heat</li> <li>Plug/cord receptacle</li> <li>Fused disconnect switch</li> <li>Flow control valve</li> <li>Outside air damper</li> <li>Four cabinet colors</li> </ul>	<ul style="list-style-type: none"> <li>Geothermal operation (Std)</li> <li>Modulating HGRH (Std)</li> <li>Variable airflow control</li> <li>Hydronic pre-heat coil</li> <li>Non-fused disconnect</li> <li>Coated coils</li> <li>Deluxe sound package</li> <li>5-yr extended warranty</li> <li>4" MERV 13 filters</li> <li>BACnet and LONWORKS</li> </ul>