



SmartSource® Water Source Heat Pumps



Single stage and two-stage
horizontal ceiling-mounted
and vertical floor models



Models WGSB, WGTH



Models WGSV, WGTV

Sizes 007 – 072 (½ - 6 tons)

Efficient solutions, energy savings and quiet operation



Daikin SmartSource water source heat pumps combine industry leading efficiencies with low noise operation, high indoor air quality and consistent air temperatures. Now you can enjoy both a quiet and comfortable indoor environment while conserving more energy.

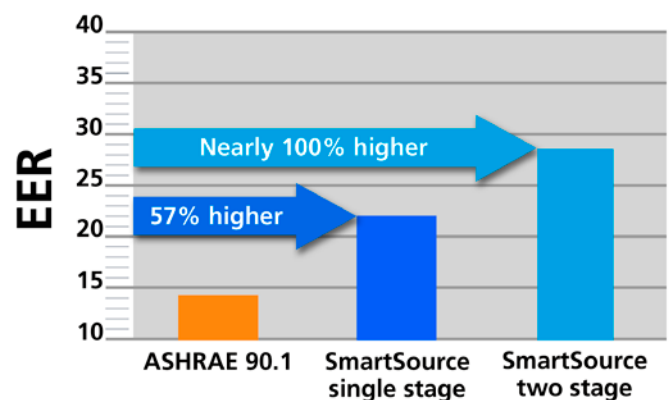
SmartSource water source heat pumps are popular in a variety of building applications that include schools, clinics, office buildings, government offices, senior living facilities, and new construction or retrofit projects where high efficiency is a key requirement.

To help deliver those high-efficiencies, SmartSource units incorporate standard ECM motors with field-selectable air flow settings that run more efficiently than traditional PSC motors, and which also deliver better air filtration and air distribution to a building.

Part load EERs range from 26.1 to 28.9 for geothermal applications, making these units one of the most efficient available to heat and cool a commercial space. Use SmartSource to earn energy rebates or for assisting with LEED certification.

SmartSource project solutions

- Significantly reduce sound levels using lower fan speeds and compressor settings for a quieter space
- Remove more heat and humidity, making the room more comfortable
- Reduce energy usage, earning energy rebates or assisting with LEED certification
- Save on maintenance and parts replacement with reduced compressor cycling, extending equipment life and lowering operating costs



Features and options

Smart dehumidification options:

1 Smart dehumidification

- uses hot gas reheat, humidistat, 2-stage thermostat & smart airflow management for precise humidity control
- **Simplified dehumidification** – uses a 3-stage thermostat to optimize unit capacity and fan speed for maximum latent capacity while decreasing room humidity levels
- **Humidistat controlled dehumidification** – optimizes fan speed for maximum latent capacity while decreasing room humidity levels
- **Dehumidification only** – uses a humidistat in cooling only mode

Factory-mounted options and accessories:

2 Hydronic heat (vertical units only)

- Reduces compressor energy consumption by using hot loop water for heating under suitable conditions. Smart fan controls further reduce energy consumption and sound levels by delivering optimum air flow during hydronic heat operation

3 Desuperheater (vertical units only)

- Reclaims waste heat from the compressor to provide “free” domestic hot water; ideal for apartments and condos

4 Waterside economizer

- Reduces compressor energy consumption by using a cold water coil for cooling under suitable conditions

5 Unit-mounted loop pump(s)

- Factory-mounted pump(s) with flow and head capabilities for most geothermal applications, reduces system complexity by eliminating the need for a central pumping system

6 5, 10, 15 & 20 kW electric heat

- Electric heat coil with controls for primary, supplemental, boilerless or emergency heat. (Available as field-installed duct heater kit for horizontal units)

7 Non-fused disconnect (option)

- Convenient power shut-off and lockout at the unit

8 Premium sound package (option)

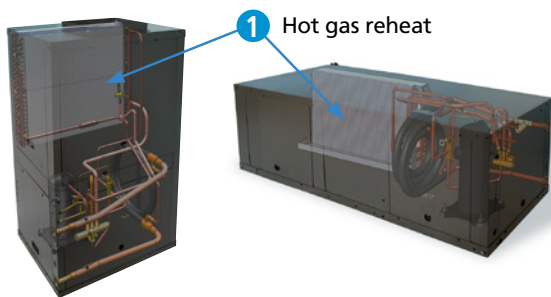
- Reduces sound levels for quieter operation

9 4-position fan switch

- 4-selectable CFM settings for quiet operation and reduced energy consumption

Additional options:

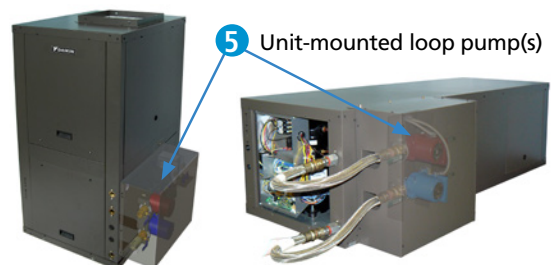
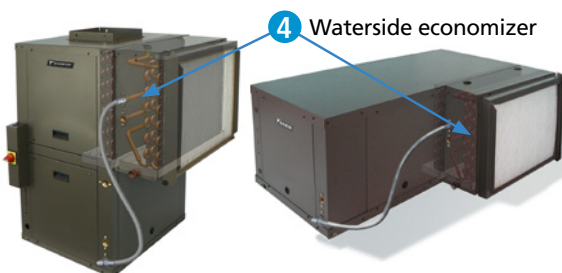
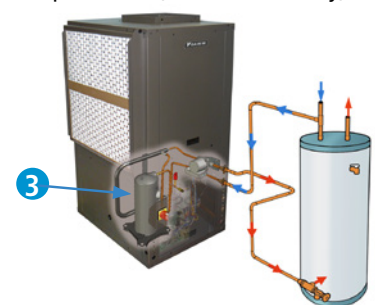
- **MicroTech® III SmartSource controls** – easy open-protocol integration with optional LONWORKS® or BACnet®
- **Extended range coaxial heat exchanger coil and piping insulation** – for geothermal application
- **Insulation options** – foil faced, closed cell or 1/2" standard fiberglass options for the air and compressor side of the unit
- **Coated coils** – for extra corrosion protection to meet ASTM B117 3000 hour salt spray test
- **5-year extended parts warranty available**



Hydronic heat (vertical units only)



Desuperheater (vertical units only)



6 Electric heat



Vertical unit internal factory-installed electric heater



Horizontal unit external duct-mounted electric heater

7 Non-fused disconnect (option)



8 Premium sound package (option)



9 4-position fan switch



SmartSource® delivers the best efficiencies

AHRI performance data – SmartSource models WGSB/WGSV and WGTH/WGTV

Unit Size	Stage	CFM	GPM	Water Loop (Boiler Tower)				Ground Loop (Geothermal)				Unit Dimensions (in inches)	
				Cooling		Heating		Cooling		Heating		Horizontal	Vertical
				Btu/hr	EER	Btu/hr	COP	Btu/hr	EER	Btu/hr	COP		
007	Full Load	250	2.2	8000	15.4	9800	5.5	8400	18.1	6200	3.9	21.6W x 45L x 17.3H	21.6W x 22.65D x 34.5H
009	Full Load	300	2.4	9700	15.6	12000	4.8	10200	15.0	7500	3.3		
012	Full Load	400	3.3	12700	15.5	15700	5.4	13300	18.1	10000	3.9		
015	Full Load	500	3.8	15300	18.1	19100	5.9	16000	21.2	11700	4.1	22.4W x 50.3L x 19.3H	22.4W x 25.6D x 37.5H
019	Full Load	600	4.4	17500	15.7	22600	5.7	18700	18.7	13800	4.1		
024	Full Load	800	6.5	26200	16.9	28900	6.0	27500	19.9	17700	4.1	22.4W x 63.3L x 19.3H	22.4W x 26D x 48H
026	Full Load	800	6.5	26400	16.8	29300	5.7	27600	19.3	18100	4.1	22.4W x 63.3L x 19.3H	22.4W x 26D x 48H
	Part Load	700	6.5	19800	18.2	21800	6.4	22200	26.8	15100	4.6		
030	Full Load	1000	7.5	30000	17.3	33600	5.8	22000	20.1	21600	4.1	22.4W x 63.3L x 19.3H	22.4W x 26D x 48H
032	Full Load	1000	7.5	32500	18.2	36400	5.3	33800	26.8	23700	4.1	22.4W x 63.3L x 19.3H	22.4W x 26D x 48H
	Part Load	875	7.5	24700	18.5	27800	6.0	26800	25.9	19800	4.5		
036	Full Load	1250	9.0	37300	19.2	40800	6.0	38500	22.0	26200	4.3	22.4W x 73L x 21.3H	25W x 32.5D x 50.5H
038	Full Load	1250	9.0	39000	17.6	44400	5.6	40200	20.1	28100	4.2	25W x 73L x 21.3H	25W x 32.5D x 50.5H
	Part Load	1050	9.0	28300	20.2	32600	6.4	30500	28.9	22500	4.7		
042	Full Load	1400	10.5	43900	17.5	48600	5.4	45500	20.2	31300	4.0	25W x 78.4L x 21.3H	25W x 32.5D x 54.5H
044	Full Load	1400	10.5	44400	17.3	50100	5.4	45900	19.8	31700	4.0	25W x 78.4L x 21.3H	25W x 32.5D x 54.5H
	Part Load	1225	10.5	32900	19.7	36600	6.0	35500	28.3	25600	4.0		
048	Full Load	1600	12.2	50500	17.2	57100	5.4	52700	19.9	36900	4.0	25W x 78.4L x 21.3H	25W x 32.5D x 54.5H
049	Full Load	1600	12.2	48900	16.7	55300	5.3	50600	19.2	35900	4.0	25W x 78.4L x 21.3H	25W x 32.5D x 54.5H
	Part Load	1400	12.2	36900	19.5	40800	6.0	39600	28.2	29200	4.0		
060	Full Load	2000	16.0	63700	17.4	74200	5.2	66300	20.0	46500	3.8	25W x 83.8L x 21.3H	25W x 32.5D x 58.5H
064	Full Load	2000	16.0	64800	17.4	76100	5.2	67100	19.7	47000	3.9	25W x 83.8L x 21.3H	25W x 32.5D x 58.5H
	Part Load	1750	16.0	48200	19.6	53800	5.8	52200	28.0	38300	4.3		
070	Full Load	2160	17.5	73400	15.9	89000	5.0	75700	18.0	55800	3.7	25W x 83.8L x 21.3H	25W x 32.5D x 58.5H
072	Full Load	2160	17.5	72700	15.9	88400	5.0	75300	18.1	55200	3.7	25W x 83.8L x 21.3H	25W x 32.5D x 58.5H
	Part Load	1920	17.5	56400	18.4	64600	5.4	60700	26.1	46200	4.2		

 = Data for models WGSB and WGSV

 = Data for models WGTH and WGTV

Focused on a sustainable future

Daikin Applied is committed to sustainable practices as part of our corporate culture. We believe it is the right thing to do for our customers, our community, the environment and ourselves. As a global leader in HVAC technology, Daikin Applied has a unique opportunity to make a difference in sustainable initiatives and to continue to lead the industry in environmental solutions.



For more information about our complete line of water source heat pumps, contact your local Daikin Applied sales office or visit www.DaikinApplied.com to find an office near you.

