

RP Model Series

Residential Water Source Heat Pumps

Engineering Submittal Sheet



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Overview and Certifications



- ▶ 2 to 6 Ton Capacities
- ▶ Two Stage High Efficiency
- ▶ New and Improved Scroll Compressors
- ▶ Brand-New Unit Design
- ▶ Low GWP Ready (R-454B Refrigerant)

Standard Features, Factory Installed Options, and Field Install Accessories

Standard Features

- ▶ Available in Horizontal and Vertical Cabinets
 - Constructed using painted steel
 - Standard hanging bracket kits on HZ units for suspending the unit from field supplied hanger rods
 - Panel handles for easy removal for service
- ▶ Two Stage Scroll Compressors
 - Floating compressor base pan for quiet operation
- ▶ ECM Constant Airflow Blowers
- ▶ Unit Configuration
 - Left hand or right hand return air
 - Top or end supply air
 - Copper or cupro-nickel coaxial coil
- ▶ 2" MERV 8 filter with 4-sided filter rack
- ▶ 1/2" Closed Cell Foam Insulation
 - Fiber free insulation for improved indoor air quality
 - Compressor blanket for improved noise reduction
 - 2% air leakage compliant
- ▶ TXV (Thermal Expansion Valve)
 - Improves refrigerant management and efficiencies
- ▶ Reliability - Durability – Serviceability
 - Slide out blower (VT Units Only)
 - Improved air coil serviceability
 - Completely serviceable from front of unit as well as isolated controls allow the unit to be serviced during operation
- ▶ DuoGuard™ Evaporator Coil
 - Tin Electro-Plated Copper Tubing Hair Pins with high-tech polymer coated aluminum fins will protect the evaporator coil from most forms of corrosive elements in the airstream
- ▶ Electronic Circuit Board UPM
 - The electronic circuit board provides protection with:
 - Random Start of Unit
 - Anti-Short Cycling (5 minute delay)
 - Alarm communicating output
 - Low pressure switch bypass at cold water start up
 - It also monitors and communicates standard safety features/ alerts/ operation/ protection:
 - Low Pressure Switch
 - High Pressure Switch
 - Evaporator Freeze Protection
 - Water Coil Freeze Switch
 - Condensate Overflow Switch
 - This circuit board can communicate with a Bosch thermostat that alerts the customer of adverse conditions
- ▶ 75 VA Transformer
- ▶ Warranty
 - 10 year all parts limited warranty
 - 10 year compressor limited warranty
 - For full warranty details: <https://www.bosch-homecomfort.com/us/en/residential/service/product-warranty-library/heat-pump-geothermal-warranty-documents/>
- ▶ Field Configurable Horizontal Discharge Air Conversion
 - The horizontal conversion allows end blow to straight through conversion of discharge air, as factory installed straight through configuration for HZ units is not available.
- ▶ Water Connections
 - All water connections are heavy duty bronze FPT fittings securely fastened to the unit corner post

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Standard Features, Factory Installed Options, and Field Install Accessories

Factory Installed Options

- ▶ Cupro-nickel Coil
 - Recommended in conditions anticipating moderate scale formation or in brackish water
- ▶ Domestic Hot Water Heat Recovery Package (Desuperheater)
 - Utilizes the compressor's superheated discharge gas to preheat domestic hot water.
 - The HRP reduces the amount of electricity or fossil fuels otherwise used for hot water.

Field Install Accessories

- ▶ Thermostats
 - Bosch thermostats are fully customized to meet your individual needs. Bosch offers communicating thermostats that can display alert messages without having to go to the unit.
- ▶ Internally Mounted Electric Heater Kits
 - A field installed option for back up heat. Available in 5, 10, 15, or 20 kW depending on the size of the geothermal heat pump.
- ▶ Externally Mounted Duct Heater Kits
- ▶ Swivel Water Connections
 - 3/4" or 1" FPT Swivel Water Connection
- ▶ Pump/Valve Relay Kit
 - This relay is used to energize a supply pump or solenoid valve when there is a call for compressor operation. This relay can be used to switch either high or low voltage power.
- ▶ SmartStart Assist Kit
 - An option which provides a means of reducing inrush currents at compressor startup. Light flickering is eliminated, and a smooth start is achieved (only available on scroll compressor models).
- ▶ Stainless Steel Hose Kits
 - Available in various lengths and diameters depending on the need for your application.
- ▶ Flow Center Kits

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Field Installed Accessory - Pump/Valve Relay Kit

Part Number	024		036		048		060		070	
	VT	HZ	VT	HZ	VT	HZ	VT	HZ	VT	HZ
8733951906	•	•	•	•	•	•	•	•	•	•

Field Installed Accessory - Flow Proving Switch (Differential Pressure) Kit

Part Number	024		036		048		060		070	
	VT	HZ	VT	HZ	VT	HZ	VT	HZ	VT	HZ
8733920264	•	•	•	•	•	•	•	•	•	•

Field Installed Accessory - Swivel Connector Kit (two connectors per package)

Order Number	Type & Size	024		036		048		060		070	
		VT	HZ	VT	HZ	VT	HZ	VT	HZ	VT	HZ
8733927179	Male 3/4" NPT	•	•	•	•						
8733927180	Male 1" NPT					•	•	•	•	•	•

Field Installed Accessory - SmartStart Assist Kit

Part Number	024		036		048		060		070	
	VT	HZ	VT	HZ	VT	HZ	VT	HZ	VT	HZ
8733957159	•	•	•	•						
8733957160					•	•	•	•	•	•

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Field Installed Accessory - Stainless Steel Hose Kits

Options	Option 1	Option 2	Option 3**	Option 4**,***	Option 5**, ***	Option 6**, ***
Hose Size (Length, Diameter)	Hoses Only with Swivel	Hose Kit Hoses with Ported Ball Valves, Swivel and One P/T*	Hose Kit with Automatic Flow Valve (AFV)*	Hose kit with AFV, Y-Strainer & Blow Down Valve*	Hose Kit with AFV and Electric Valve*	Hose Kit with AFV, Y-Strainer, BDV and Electric Valve*
	Part #	Part #	Part #	Part #	Part #	Part #
12 Inch						
1/2" L	T111H02121	T111H02122	T111H02123	T111H02124	T111H02125	T111H02126
24 Inch						
3/4" S	T111H03241	T111H03242	T111H03243	T111H03244	T111H03245	T111H03246
1" L	T111H04241	T111H04242	T111H04243	T111H04244	T111H04245	T111H04246
1" S	T111H04241	T111H04242	T111H04247	T111H04248	T111H04249	T111H04240
1 - 1/4" S	T111H05241	T111H05242	T111H05243	T111H05244	T111H05245	T111H05246
1 - 1/2" L	T111H06241	T111H06242	T111H06243	T111H06244	T111H06245	T111H06246
1 - 1/2" S	T111H06241	T111H06242	T111H06247	T111H06248	T111H06249	T111H06240
2" S	T111H08241	T111H08242	T111H08243	T111H08244	T111H08245	T111H08246
36 Inch						
3/4" S	T111H03361	T111H03362	T111H03363	T111H03364	T111H03365	T111H03366
1" L	T111H04361	T111H04362	T111H04363	T111H04364	T111H04365	T111H04366
1" S	T111H04361	T111H04362	T111H04367	T111H04368	T111H04369	T111H04360
1 - 1/4" S	T111H05361	T111H05362	T111H05363	T111H05364	T111H05365	T111H05366
1 - 1/2" L	T111H06361	T111H06362	T111H06363	T111H06364	T111H06365	T111H06366
1 - 1/2" S	T111H06361	T111H06362	T111H06367	T111H06368	T111H06369	T111H06360
2" S	T111H08361	T111H08362	T111H08363	T111H08364	T111H08365	T111H08366

* All Hose Kits include S/R ported ball valves with swivel and P/T port.

** 'L' and 'S' only apply to kit options 3 through 6

*** GMP's are required for hose kits in options 3-6

Hose Kit Flow Rates by Size

Please see Technical Service Bulletin: Heat Pump Hose Kits – Water Flow Rates.

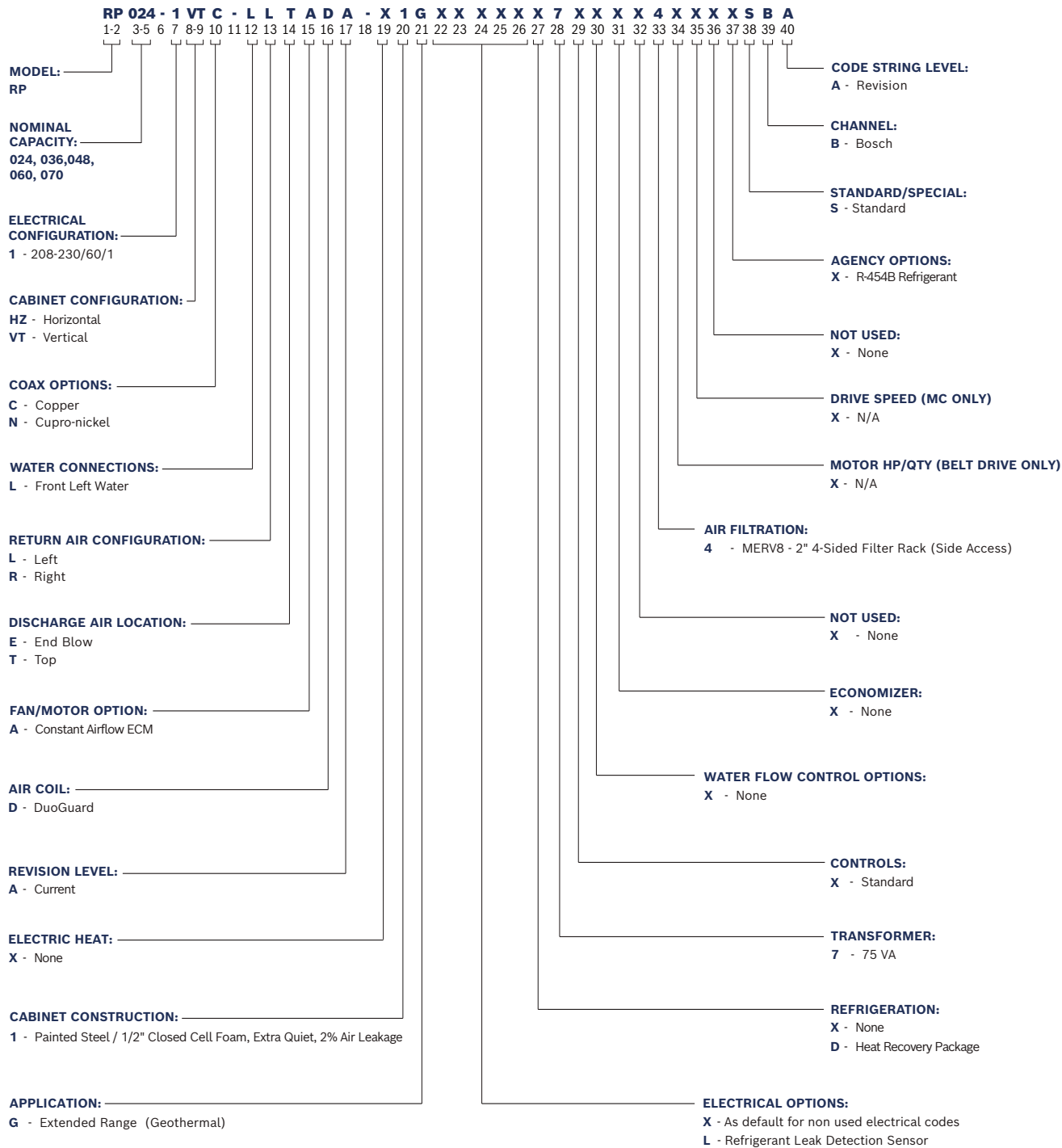
This document is located at www.bosch-climate.us under Support Center > Downloads > Downloads for Bosch Products > Service Bulletins.

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Model Nomenclature



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AHRI Ratings (13256-1) - Copper Water Coil & ECM Motor

Model Number	Configuration	Load	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump				CFM	GPM
			Cooling 86 deg.F		Heating 68 deg.F		Cooling 59 deg.F		Heating 50 deg.F		FL Cooling 77 deg.F PL Cooling 68 deg.F		FL Heating 32 deg.F PL Heating 41 deg.F			
			Capacity Btu/h	EER Btu/h/W-h	Capacity Btu/h	COP	Capacity Btu/h	EER Btu/h/W-h	Capacity Btu/h	COP	Capacity Btu/h	EER Btu/h/W-h	Capacity Btu/h	COP		
024	VT	Full	25,000	16.5	28,500	5.6	27,000	24.0	23,000	4.8	25,500	18.5	18,000	4.0	800	6.00
		Part	18,000	18.5	20,000	6.2	20,000	31.5	16,000	5.0	19,500	27.0	14,000	4.4	650	6.00
	HZ	Full	25,000	16.5	28,500	5.6	27,000	24.0	23,000	4.8	25,500	18.5	18,000	4.0	950	6.50
		Part	18,000	18.5	20,000	6.2	20,000	31.5	16,000	5.0	19,500	27.0	14,000	4.4	800	6.50
036	VT / HZ	Full	37,500	16.0	44,000	5.6	40,500	24.0	37,000	5.0	39,000	18.5	28,000	4.0	1,300	10.00
		Part	27,000	18.0	31,500	6.2	29,000	30.0	26,000	5.2	29,000	25.5	22,000	4.4	975	10.00
048	VT / HZ	Full	49,500	16.0	58,000	5.6	53,500	23.0	48,000	5.0	51,000	18.0	38,000	4.0	1,700	12.00
		Part	36,000	18.0	41,000	6.2	39,000	29.5	33,500	5.2	38,000	25.0	29,500	4.4	1,300	12.00
060	VT / HZ	Full	61,500	16.0	75,000	5.6	67,500	23.5	62,000	5.0	63,000	18.0	48,000	4.0	2,000	15.00
		Part	45,000	18.5	53,000	6.2	49,500	31.0	43,000	5.2	48,500	26.0	37,500	4.4	1,600	15.00
070	VT	Full	68,000	15.0	86,000	5.1	75,000	22.0	71,000	4.5	70,000	17.0	55,000	3.8	2,150	18.00
		Part	51,000	16.5	64,000	5.6	57,000	27.0	52,000	4.7	56,000	23.0	45,000	4.2	1,800	18.00
	HZ	Full	68,000	15.0	86,000	5.1	75,000	22.0	71,000	4.5	70,000	17.0	55,000	3.8	2,100	18.00
		Part	51,000	16.5	64,000	5.6	57,000	27.0	52,000	4.7	56,000	23.0	45,000	4.2	1,700	18.00

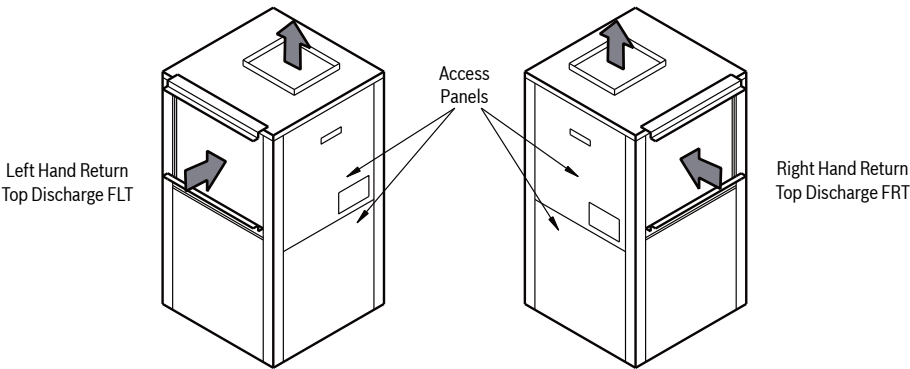
AHRI Ratings (13256-1) - Cupro-Nickel Water Coil & ECM Motor

Model Number	Configuration	Load	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump				CFM	GPM
			Cooling 86 deg.F		Heating 68 deg.F		Cooling 59 deg.F		Heating 50 deg.F		FL Cooling 77 deg.F PL Cooling 68 deg.F		FL Heating 32 deg.F PL Heating 41 deg.F			
			Capacity Btu/h	EER Btu/h/W-h	Capacity Btu/h	COP	Capacity Btu/h	EER Btu/h/W-h	Capacity Btu/h	COP	Capacity Btu/h	EER Btu/h/W-h	Capacity Btu/h	COP		
024	VT	Full	24,500	16.5	28,000	5.6	26,500	24.0	22,500	4.8	25,000	18.5	17,500	4.0	800	6.00
		Part	17,500	18.5	19,500	6.2	19,500	31.5	15,500	5.0	19,000	27.0	13,500	4.4	650	6.00
	HZ	Full	24,500	16.5	28,000	5.6	26,500	24.0	22,500	4.8	25,000	18.5	17,500	4.0	950	6.50
		Part	17,500	18.5	19,500	6.2	19,500	31.5	15,500	5.0	19,000	27.0	13,500	4.4	800	6.50
036	VT / HZ	Full	37,000	16.0	43,500	5.6	40,000	23.5	36,500	5.0	38,500	18.3	27,500	4.0	1,300	10.00
		Part	26,500	18.0	31,000	6.2	28,500	29.5	25,500	5.2	28,500	25.3	21,500	4.4	975	10.00
048	VT / HZ	Full	49,000	15.5	57,500	5.6	53,000	22.5	47,500	5.0	50,500	17.5	37,500	4.0	1,700	12.00
		Part	35,500	17.5	40,500	6.2	38,500	29.0	33,000	5.2	37,500	24.5	29,000	4.4	1,300	12.00
060	VT / HZ	Full	61,000	16.0	75,000	5.6	67,000	23.0	61,500	5.0	62,500	18.0	47,500	4.0	2,000	15.00
		Part	44,500	18.5	53,000	6.2	49,000	30.5	42,500	5.2	48,000	26.0	37,000	4.4	1,600	15.00
070	VT	Full	68,000	15.0	86,000	5.1	74,000	21.5	71,000	4.5	70,000	16.8	55,000	3.8	2,150	18.00
		Part	51,000	16.5	64,000	5.6	57,000	26.5	52,000	4.7	55,000	22.8	45,000	4.2	1,800	18.00
	HZ	Full	68,000	15.0	86,000	5.1	74,000	21.5	71,000	4.5	70,000	16.8	55,000	3.8	2,100	18.00
		Part	51,000	16.5	64,000	5.6	57,000	26.5	52,000	4.7	55,000	22.8	45,000	4.2	1,700	18.00

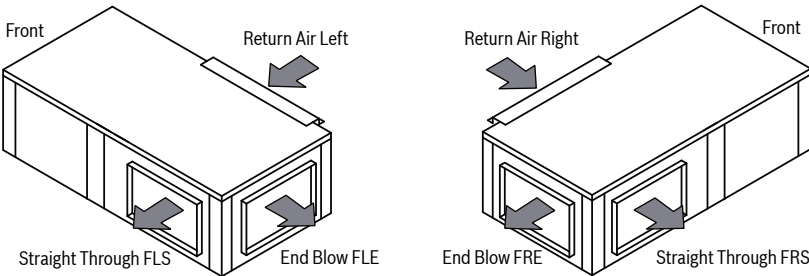
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Vertical Unit Configurations



Horizontal Unit Configurations



Unit Service clearances:

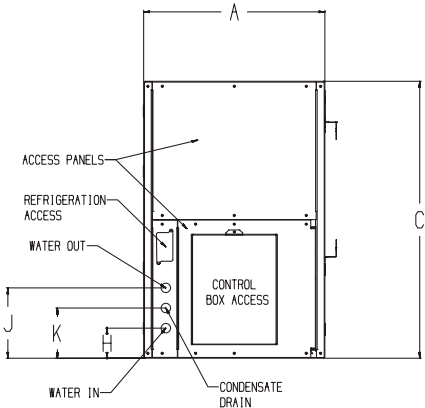
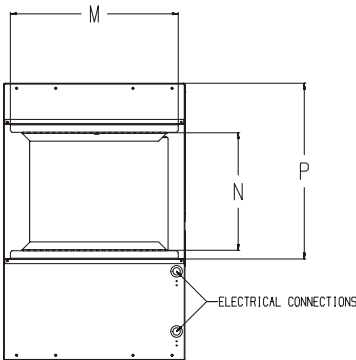
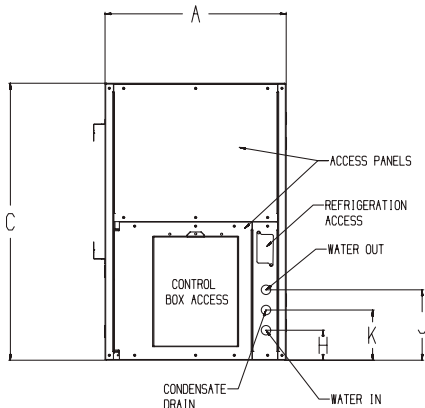
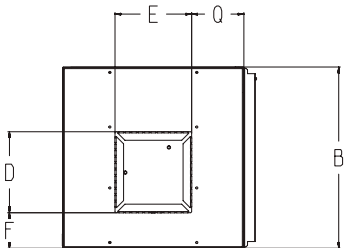
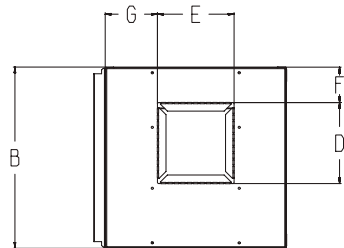
- Compressor & electrical box access: Minimum 24", 36" recommended.
- Blower access: Minimum 18", 24" recommended.

Please consult product IOM for more information.

RP Model Series - Residential Water Source Heat Pumps



Vertical Unit Dimensions and Connections



LEFT HAND RETURN RIGHT WATER (FLT)

RETURN AIR (FILTER) VIEW

RIGHT HAND RETURN LEFT WATER (FRT)

Vertical Unit Dimensions

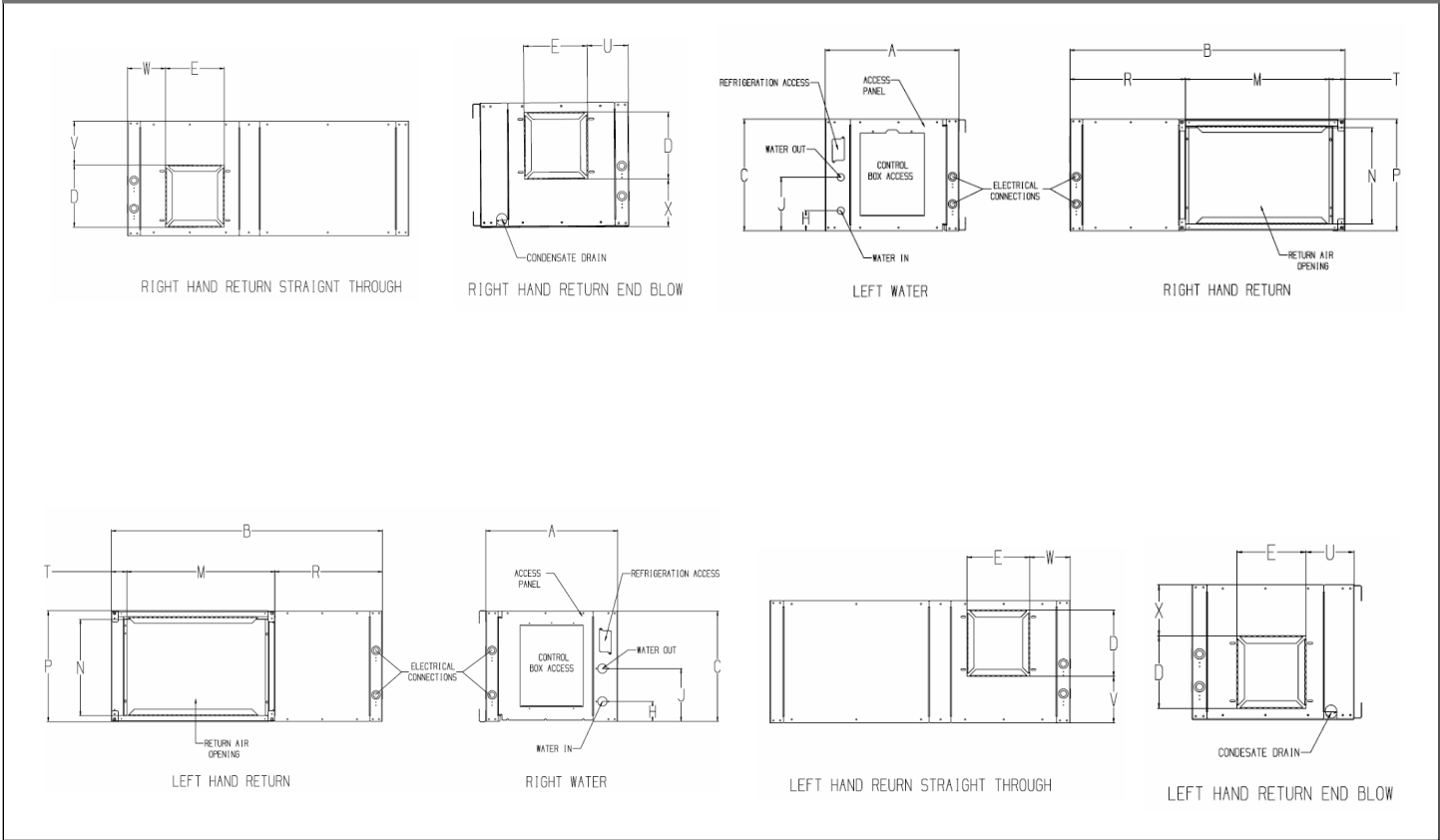
Model	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	Condenser Water Connections	Recommended Replacement Nominal Filter Size
	Width	Depth	Height	Discharge Depth	Discharge Width	Cabinet Edge to Discharge	Left Side to Discharge	Water Inlet	Water Outlet	Condensate Drain	R/A Duct Width	R/A Duct Flange Height	Filter Rack Height	Cabinet Edge to Discharge (Right Hand Return)		
024	21.50	26.00	44.00	11.25	10.50	5.75	5.50	3.25	8.50	5.75	18.25	24.75	27.25	5.50	3/4"FPT	19x27
036	24.00	26.00	44.00	11.25	10.50	5.00	6.75	3.25	8.50	5.75	24.00	28.00	30.00	6.75	3/4"FPT	24x30
048	24.00	33.00	51.00	13.50	12.00	8.50	6.00	3.00	8.25	5.50	30.00	34.25	37.25	6.00	1"FPT	18x30
060	25.00	33.00	58.00	13.50	14.75	9.00	6.00	3.00	8.25	5.50	30.00	40.00	42.75	6.00	1"FPT	24x30 & 18x30
070	25.00	33.00	58.00	13.50	14.75	9.00	6.00	3.00	8.25	5.50	30.00	40.00	42.75	6.00	1"FPT	24x30 & 18x30

NOTES: All dimensions within +/- 0.125". All condensate drain connections are 3/4" FPT. Specifications subject to change without notice. Overall unit dimensions do not include filter rack or duct flanges.

RP Model Series - Residential Water Source Heat Pumps



Horizontal Unit Dimensions and Connections



Horizontal Unit Dimensions

Model	A	B	C	D	E	G	H	M	N	P	R	S	U	V	W	X	Condenser Water Connections	Recommended Replacement Nominal Filter Size
024	21.50	47.00	19.00	11.25	10.50	3.25	8.75	29.25	16.00	18.00	15.50	2.25	5.50	6.03	5.50	1.75	3/4"FPT	18x30
036	24.00	54.00	21.00	12.50	11.75	3.25	8.50	33.25	18.00	20.00	19.50	1.25	6.75	6.81	5.50	1.75	3/4"FPT	20x34
048	24.00	65.00	21.00	12.50	11.75	3.00	8.25	43.50	18.00	20.50	16.00	5.25	6.75	6.75	5.50	1.75	1"FPT	20x24 (Qty 2)
060	24.00	75.25	21.00	12.50	11.75	3.00	8.25	49.50	18.00	20.25	22.50	3.00	6.75	6.82	4.75	1.75	1"FPT	20x25 (Qty 2)
070	24.00	75.25	21.00	12.50	11.75	3.00	8.25	49.50	18.00	20.25	22.50	3.00	6.75	6.82	4.75	1.75	1"FPT	20x25 (Qty 2)

NOTES: All dimensions within +/- 0.125". All condensate drain connections are 3/4" FPT. Units can be field converted between end blow and straight through supply air configurations. Specifications subject to change without notice. Overall unit dimensions do not include filter rack or duct flanges.

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Operating Limits				
Fluid Type	Limit		Cooling	Heating
Air	Minimum ambient air		50°F	40°F
	Maximum ambient air		100°F	85°F
	Rated ambient air		80°F	68°F
	Minimum Air coil entering air db/wb		65/57°F	45°F
	Maximum Air Coil entering air db/wb		95/85°F	80°F
	Rated Air coil entering air db/wb		80/67°F	68/59°F
Liquid	Antifreeze Protection Required LWT / EWT		-	< 40/< 50°F
	Minimum water coil entering fluid		45°F	20°F
	Maximum water coil entering fluid		110°F	80°F
	Rated water coil entering fluid	Water Loop application	86°F	68°F
		Ground Loop application	77°F	32°F
		Ground Water application	59°F	50°F
	Maximum operating water pressure	Standard unit	400psi/2,758kPA	
		With factory installed water valve option	300psi/2,068kPA	
	Minimum operating water flow rate		1.5 GPM per ton	

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Antifreeze Correction							
Antifreeze Type	Antifreeze Volume %	Cooling			Heating		WPD Correction Factor EWT 30 °F
		EWT 90 Deg.F			EWT 30 Deg. F		
		Total Cap.	Sens. Cap	Power	Htg. Cap	Power	
Water	0	1.000	1.000	1.000	1.000	1.000	1.000
Propylene Glycol	5	0.998	0.998	1.004	0.995	0.999	1.085
	10	0.996	0.995	1.008	0.989	0.997	1.165
	15	0.994	0.992	1.012	0.980	0.995	1.257
	25	0.989	0.983	1.023	0.962	0.990	1.491
	35	0.981	0.972	1.040	0.938	0.984	1.812
	40	0.976	0.965	1.050	0.923	0.981	2.012
	45	0.970	0.956	1.062	0.907	0.977	2.240
	50	0.964	0.948	1.076	0.890	0.972	2.502
Methanol	5	0.997	0.997	1.003	0.990	0.997	1.060
	10	0.996	0.996	1.005	0.979	0.993	1.100
	15	0.994	0.994	1.008	0.970	0.990	1.140
Ethanol	5	0.998	0.998	1.002	0.981	0.994	1.160
	10	0.996	0.996	1.004	0.960	0.988	1.230
	15	0.992	0.992	1.006	0.944	0.983	1.280
	25	0.986	0.986	1.009	0.917	0.974	1.400
Ethylene Glycol	5	0.999	0.999	1.002	0.997	0.999	1.035
	10	0.998	0.996	1.005	0.993	0.998	1.086
	15	0.996	0.994	1.009	0.986	0.996	1.145
	25	0.992	0.988	1.018	0.974	0.993	1.278
	30	0.989	0.984	1.023	0.967	0.992	1.354
	35	0.986	0.979	1.029	0.960	0.990	1.436
	40	0.983	0.974	1.036	0.953	0.988	1.528
	45	0.979	0.969	1.044	0.944	0.986	1.629
	50	0.975	0.962	1.053	0.934	0.983	1.743

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Waterside Pressure Drop			
Model	Water Flow Rate (GPM)	Water Side Pressure Drop without Internal Valve (PSI)	Water Side Pressure Drop with Internal Valve (PSI)
024	3.0	1.1	1.2
	4.5	2.3	2.4
	6.0	3.7	3.9
	8.0	6.1	6.3
036	4.5	0.8	1.0
	6.8	1.6	1.9
	9.0	2.7	3.0
	12.0	4.4	4.8
048	6.0	1.2	1.3
	9.0	2.3	2.6
	12.0	3.9	4.3
	16.0	6.4	6.9
060	7.5	1.0	1.2
	11.3	2.1	2.3
	15.0	3.5	3.7
	20.0	5.7	6.1
070	9.0	1.4	1.6
	13.5	2.9	3.1
	18.0	4.8	5.0
	24.0	7.9	8.3

- All values based on pure water at 70° F.

Electrical Data - Constant Airflow ECM Blower Motor																		
Model Number	Voltage Code	Voltage/ Hz/ Phase	Voltage Min/Max	Compressor			Blower Motor		Total Unit FLA	Single Point Power			Dual Point Power					
				Qty	RLA	LRA	FLA	HP		Min. Circuit Amps	MOP CALC	MOP	Compressor Circuit			Blower Motor Circuit		
													Min. Circuit Amps	MOP CALC	MOP	Min. Circuit Amps	MOP CALC	MOP
024	1	208-230/1/60	197/253	1	10.3	62	2.8	0.33	13.1	15.6	25.9	25	12.8	23.1	20	3.5	6.3	15
036	1	208-230/1/60	197/253	1	14.6	90	6.0	0.75	20.6	24.2	38.7	35	18.2	32.7	30	7.5	13.5	15
048	1	208-230/1/60	197/253	1	18.3	138	6.0	0.75	24.3	28.9	47.3	45	22.9	41.3	40	7.5	13.5	15
060	1	208-230/1/60	197/253	1	25.2	147	7.6	1.00	32.8	39.1	64.3	60	31.5	56.7	50	9.5	17.1	15
070	1	208-230/1/60	197/253	1	28.0	166	7.6	1.00	35.6	42.6	70.6	70	35.0	63.0	60	9.5	17.1	15

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RP Model Series - Residential Water Source Heat Pumps



Blower Performance CFM - Vertical Unit w/ Constant Airflow Motor

Model Number	Fan Speed	Default Factory Motor Setting	External Static Pressure (in. of Water)											
			0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
024	A -		680	680	680	680	680	680	680	680	-	-	-	-
	A Norm (Full)	X	800	800	800	800	800	800	800	800	-	-	-	-
	A +		920	920	920	920	920	920	920	920	-	-	-	-
	A -		553	553	553	553	553	553	553	553	-	-	-	-
	A Norm (Part)	X	650	650	650	650	650	650	650	650	-	-	-	-
	A +		748	748	748	748	748	748	748	748	-	-	-	-
036	A -		1105	1105	1105	1105	1105	1105	1105	1105	1105	1105	-	-
	A Norm (Full)	X	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	-	-
	A +		1495	1495	1495	1495	1495	1495	1495	1495	1495	1495	-	-
	A -		829	829	829	829	829	829	829	829	829	829	-	-
	A Norm (Part)	X	975	975	975	975	975	975	975	975	975	975	-	-
	A +		1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	-	-
048	A -		1445	1445	1445	1445	1445	1445	1445	1445	1445	1445	-	-
	A Norm (Full)	X	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	-	-
	A +		1955	1955	1955	1955	1955	1955	1955	1955	1955	1955	-	-
	A -		1105	1105	1105	1105	1105	1105	1105	1105	1105	1105	-	-
	A Norm (Part)	X	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	-	-
	A +		1495	1495	1495	1495	1495	1495	1495	1495	1495	1495	-	-
060	A -		1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
	A Norm (Full)	X	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	A +		2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300
	A -		1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360
	A Norm (Part)	X	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
	A +		1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840
070	A -		1828	1828	1828	1828	1828	1828	1828	1828	1828	1828	1828	1828
	A Norm (Full)	X	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150
	A +		2473	2473	2473	2473	2473	2473	2473	2473	2473	2473	2473	2473
	A -		1530	1530	1530	1530	1530	1530	1530	1530	1530	1530	1530	1530
	A Norm (Part)	X	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
	A +		2070	2070	2070	2070	2070	2070	2070	2070	2070	2070	2070	2070

Notes: During fan only operation air flow is 69% of tabulated value.
When passive dehumidification mode is enabled air flow is 85% of tabulated value.

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RP Model Series - Residential Water Source Heat Pumps



Blower Performance CFM - Horizontal Unit w/ Constant Airflow Motor														
Model Number	Fan Speed	Default Factory Motor Setting	External Static Pressure (in. of Water)											
			0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
024	A -		808	808	808	808	808	808	808	808	-	-	-	-
	A Norm (Full)	X	950	950	950	950	950	950	950	950	-	-	-	-
	A +		1093	1093	1093	1093	1093	1093	1093	1093	-	-	-	-
	A -		680	680	680	680	680	680	680	680	-	-	-	-
	A Norm (Part)	X	800	800	800	800	800	800	800	800	-	-	-	-
	A +		920	920	920	920	920	920	920	920	-	-	-	-
036	A -		1105	1105	1105	1105	1105	1105	1105	1105	1105	1105	-	-
	A Norm (Full)	X	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	-	-
	A +		1495	1495	1495	1495	1495	1495	1495	1495	1495	1495	-	-
	A -		829	829	829	829	829	829	829	829	829	829	-	-
	A Norm (Part)	X	975	975	975	975	975	975	975	975	975	975	-	-
	A +		1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	-	-
048	A -		1445	1445	1445	1445	1445	1445	1445	1445	1445	1445	-	-
	A Norm (Full)	X	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	-	-
	A +		1955	1955	1955	1955	1955	1955	1955	1955	1955	1955	-	-
	A -		1105	1105	1105	1105	1105	1105	1105	1105	1105	1105	-	-
	A Norm (Part)	X	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	-	-
	A +		1495	1495	1495	1495	1495	1495	1495	1495	1495	1495	-	-
060	A -		1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
	A Norm (Full)	X	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	A +		2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300
	A -		1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360
	A Norm (Part)	X	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
	A +		1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840
070	A -		1828	1828	1828	1828	1828	1828	1828	1828	1828	1828	1828	1828
	A Norm (Full)	X	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150
	A +		2473	2473	2473	2473	2473	2473	2473	2473	2473	2473	2473	2473
	A -		1530	1530	1530	1530	1530	1530	1530	1530	1530	1530	1530	1530
	A Norm (Part)	X	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
	A +		2070	2070	2070	2070	2070	2070	2070	2070	2070	2070	2070	2070

Notes: During fan only operation air flow is 69% of tabulated value.
When passive dehumidification mode is enabled air flow is 85% of tabulated value.

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RP Model Series - Residential Water Source Heat Pumps



Physical Data						
Description	Unit	Value				
		024	036	048	060	070
Compressor Type	Qty 1	Scroll	Scroll	Scroll	Scroll	Scroll
Max Water Working Pressure	PSIG	400	400	400	400	400
Fan Motor & Blower						
Constant Torque Fan Motor (HP)	HP	VT: 0.33 HZ: 0.50	0.75	0.75	1.00	1.00
Constant Airflow Fan Motor (HP)	HP	VT: 0.33 HZ: 0.50	0.75	0.75	1.00	1.00
Blower Wheel Size (Dia. x W)	Inch	10x8	11x9	11x9	VT: 12x12 HZ: 11x9	VT: 12x12 HZ: 11x9
Water Connection Size (Includes Economizer Option)						
FPT	Inch	0.75	0.75	1.00	1.00	1.00
Coaxial Coil Volume	Gal	0.28	0.46	0.46	1.09	1.09
Vertical Cabinet						
Refrigeration Charge	Oz	33.5	45	56.5	89.0	89
Air Coil Dimensions (H x W)	Inch	20x16.5	28x21	36x27	42x27	42x27
Standard Filter Size (L x H)	Inch	19x27	24x30	18x30	24x30 & 18x30	24x30 & 18x30
Weight - Operating	lbs	219	255	324	397	401
Weight - Shipping	lbs	243	280	350	424	428
Horizontal Cabinet						
Refrigeration Charge	Oz	31	42.5	52	91	91
Air Coil Dimensions (H x W)	Inch	15 x 22	16 x 27.5	18 x 31	20 x 50	20 x 50
Standard Filter Size (L x H)	Inch	18x30	20x34	20x24 (Qty 2)	20x25 (Qty 2)	20x25 (Qty 2)
Weight - Operating	lbs	213	263	319	366	414
Weight - Shipping	lbs	237	288	345	393	441

RP Model Series - Residential Water Source Heat Pumps



Horizontal Cabinet Corner Weights										
Configuration			Left Hand Evaporator				Right Hand Evaporator			
Model	Unit	Total	Left Front*	Right Front*	Left Back	Right Back	Left Front*	Right Front*	Left Back	Right Back
024	Lbs	213.4	63.0	63.0	35.8	51.6	63.0	63.0	51.6	35.8
	kg	96.8	28.6	28.6	16.2	23.4	28.6	28.6	23.4	16.2
036	Lbs	262.6	68.8	68.8	69.0	56.0	68.8	68.8	56.0	69.0
	kg	119.1	31.2	31.2	31.3	25.4	31.2	31.2	25.4	31.3
048	Lbs	319.0	94.8	94.8	58.0	71.4	94.8	94.8	71.4	58.0
	kg	144.7	43.0	43.0	26.3	32.4	43.0	43.0	32.4	26.3
060	Lbs	366.2	104.8	104.8	86.2	70.4	104.8	104.8	70.4	86.2
	kg	166.1	47.5	47.5	39.1	31.9	47.5	47.5	31.9	39.1
070	Lbs	414.2	126.4	126.4	69.6	91.8	126.4	126.4	91.8	69.6
	kg	187.9	57.3	57.3	31.6	41.6	57.3	57.3	41.6	31.6

*Front is control box end

RP Model Series - Residential Water Source Heat Pumps



Capacity Data 024 (800 CFM) - Full Load																	
Cooling									Heating								
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP	
50	3.0	1.3	75/63	26.3	20.0	29.6	1.2	22.6	30	3.0	1.8	60	15.3	11.8	1.2	3.7	
			80/67	27.9	20.5	31.3	1.2	23.8				70	15.2	11.3	1.3	3.3	
			85/71	29.7	21.0	33.1	1.2	24.9				80	15.0	10.7	1.5	3.0	
	4.5	2.7	75/63	27.2	20.4	30.2	1.1	25.8		4.5	3.4	60	17.1	13.5	1.2	4.0	
			80/67	29.0	20.9	32.0	1.1	27.4				70	16.9	12.9	1.4	3.6	
			85/71	30.8	21.4	33.9	1.1	29.0				80	16.6	12.2	1.5	3.2	
	6.0	4.4	75/63	27.7	20.7	30.5	1.0	27.8		6.0	5.4	60	18.0	14.4	1.3	4.2	
			80/67	29.5	21.3	32.4	1.0	29.7				70	17.7	13.6	1.4	3.7	
			85/71	31.4	21.6	34.3	1.0	31.6				80	17.3	12.8	1.5	3.3	
60	3.0	1.3	75/63	25.3	19.5	28.9	1.3	19.5	40	3.0	1.6	60	17.5	13.9	1.3	4.1	
			80/67	26.8	20.0	30.5	1.3	20.5				70	17.3	13.3	1.4	3.7	
			85/71	28.4	20.7	32.2	1.3	21.4				80	17.1	12.7	1.5	3.3	
	4.5	2.5	75/63	26.1	19.9	29.5	1.2	22.0		4.5	3.2	60	19.6	16.0	1.3	4.5	
			80/67	27.8	20.4	31.2	1.2	23.3				70	19.3	15.3	1.4	4.0	
			85/71	29.5	21.1	33.0	1.2	24.6				80	19.0	14.5	1.6	3.6	
	6.0	4.1	75/63	26.6	20.1	29.8	1.1	23.5		6.0	5.1	60	20.8	17.1	1.3	4.7	
			80/67	28.3	20.7	31.6	1.1	25.0				70	20.4	16.3	1.4	4.2	
			85/71	30.2	21.2	33.4	1.1	26.6				80	20.0	15.3	1.6	3.7	
70	3.0	1.2	75/63	24.2	19.1	28.2	1.4	16.9	50	3.0	1.5	60	19.8	16.1	1.3	4.5	
			80/67	25.7	19.7	29.8	1.5	17.7				70	19.6	15.5	1.4	4.1	
			85/71	27.3	20.1	31.5	1.5	18.5				80	19.3	14.8	1.6	3.6	
	4.5	2.4	75/63	25.0	19.4	28.7	1.3	18.9		4.5	3.0	60	22.4	18.6	1.3	5.0	
			80/67	26.6	20.0	30.4	1.3	20.0				70	22.0	17.8	1.4	4.5	
			85/71	28.3	20.6	32.2	1.3	21.0				80	21.6	17.0	1.6	4.0	
	6.0	3.9	75/63	25.5	19.6	29.0	1.3	20.1		6.0	4.8	60	23.7	19.9	1.3	5.2	
			80/67	27.1	20.2	30.8	1.3	21.3				70	23.3	19.1	1.5	4.7	
			85/71	28.8	20.8	32.5	1.3	22.6				80	22.8	18.1	1.6	4.1	
80	3.0	1.1	75/63	23.0	18.7	27.5	1.6	14.6	60	3.0	1.4	60	22.2	18.5	1.3	5.0	
			80/67	24.5	19.2	29.0	1.6	15.3				70	22.0	17.8	1.4	4.5	
			85/71	26.0	19.8	30.7	1.6	15.9				80	21.7	17.0	1.6	4.0	
	4.5	2.3	75/63	23.9	19.0	28.0	1.5	16.3		4.5	2.8	60	25.2	21.4	1.3	5.5	
			80/67	25.4	19.6	29.6	1.5	17.1				70	24.8	20.4	1.5	4.9	
			85/71	27.1	20.1	31.3	1.5	18.1				80	24.4	19.6	1.6	4.4	
	6.0	3.7	75/63	24.3	19.2	28.3	1.4	17.2		6.0	4.5	60	26.8	22.9	1.4	5.8	
			80/67	25.9	19.8	29.9	1.4	18.3				70	26.2	21.9	1.5	5.1	
			85/71	27.6	20.3	31.7	1.4	19.3				80	25.7	20.9	1.7	4.5	
90	3.0	1.1	75/63	21.9	18.2	26.8	1.8	12.5	70	3.0	1.3	60	24.7	20.9	1.3	5.4	
			80/67	23.4	18.7	28.4	1.8	13.1				70	24.4	20.1	1.5	4.8	
			85/71	24.8	19.4	29.9	1.8	13.7				80	24.2	19.4	1.6	4.3	
	4.5	2.1	75/63	22.7	18.6	27.3	1.6	14.0		4.5	2.6	60	28.2	24.3	1.4	6.0	
			80/67	24.2	19.2	28.9	1.6	14.7				70	27.7	23.3	1.5	5.3	
			85/71	25.8	19.6	30.5	1.7	15.5				80	27.2	22.3	1.7	4.7	
	6.0	3.5	75/63	23.2	18.7	27.5	1.6	14.8		6.0	4.2	60	30.0	26.1	1.4	6.3	
			80/67	24.7	19.2	29.2	1.6	15.6				70	29.3	24.9	1.5	5.6	
			85/71	26.3	19.9	30.8	1.6	16.5				80	28.8	23.8	1.7	4.9	
100	3.0	1.0	75/63	20.8	17.8	26.2	1.9	10.7	80	3.0	1.3	60	27.3	23.5	1.4	5.9	
			80/67	22.2	18.4	27.7	2.0	11.3				70	27.0	22.6	1.5	5.2	
			85/71	23.6	19.0	29.3	2.0	11.9				80	26.7	21.8	1.7	4.7	
	4.5	2.0	75/63	21.6	18.1	26.6	1.8	11.9		4.5	2.5	60	31.3	27.3	1.4	6.5	
			80/67	23.1	18.6	28.2	1.8	12.6				70	30.7	26.2	1.6	5.7	
			85/71	24.6	19.2	29.8	1.8	13.3				80	30.2	25.2	1.7	5.1	
	6.0	3.4	75/63	22.0	18.2	26.8	1.7	12.6		6.0	4.0	60	33.3	29.3	1.4	6.8	
			80/67	23.5	18.8	28.4	1.8	13.3				70	32.6	28.1	1.6	6.0	
			85/71	25.0	19.4	30.1	1.8	14.1				80	32.0	26.9	1.8	5.3	
110	3.0	1.0	75/63	19.7	17.3	25.7	2.1	9.2	90	3.0	1.2	60	30.0	26.1	1.4	6.3	
			80/67	21.1	17.8	27.2	2.2	9.7				70	29.6	25.2	1.6	5.6	
			85/71	22.4	18.6	28.7	2.2	10.2				80	29.3	24.3	1.7	5.0	
	4.5	1.9	75/63	20.4	17.5	26.0	2.0	10.2		4.5	2.3	60	34.4	30.4	1.5	6.9	
			80/67	21.8	18.3	27.5	2.0	10.8				70	33.8	29.3	1.6	6.2	
			85/71	23.4	18.8	29.1	2.0	11.4				80	33.3	28.2	1.8	5.5	
	6.0	3.2	75/63	20.8	17.8	26.2	1.9	10.7		6.0	3.8	60	36.7	32.6	1.5	7.3	
			80/67	22.3	18.4	27.7	2.0	11.4				70	36.0	31.4	1.6	6.4	
			85/71	23.8	19.1	29.4	2.0	12.1				80	35.2	30.0	1.8	5.7	

Extended Range - Anti-freeze required

AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings.

Unit performance may be interpolated. Extrapolation is not allowed.

For conditions other than rating conditions provided, consult the BST selection software.

Ratings below 40°F are with a methanol solution.

DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.

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RP Model Series - Residential Water Source Heat Pumps



Capacity Data 024 (650 CFM) - Part Load																	
Cooling									Heating								
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP	
50	3.0	1.4	75/63	20.1	15.8	22.0	0.7	28.6	30	3.0	1.7	60	11.5	9.0	0.9	3.6	
			80/67	21.3	16.2	23.3	0.7	30.7				70	10.7	7.8	1.0	3.1	
			85/71	22.6	16.6	24.6	0.7	32.9				80	9.9	6.9	1.1	2.6	
	4.5	2.7	75/63	20.7	16.0	22.5	0.6	32.4		4.5	3.3	60	12.4	9.9	0.9	3.9	
			80/67	22.0	16.5	23.8	0.6	35.2				70	11.6	8.7	1.0	3.3	
			85/71	23.4	16.9	25.1	0.6	38.1				80	10.9	7.8	1.1	2.8	
	6.0	4.4	75/63	21.1	16.2	22.8	0.6	34.8		6.0	5.3	60	12.8	10.3	0.9	4.1	
			80/67	22.4	16.6	24.1	0.6	37.9				70	12.0	9.2	1.0	3.5	
			85/71	23.8	17.0	25.4	0.6	41.4				80	11.3	8.2	1.1	2.9	
60	3.0	1.3	75/63	19.1	15.4	21.3	0.8	23.8	40	3.0	1.6	60	12.8	10.3	0.9	4.1	
			80/67	20.3	15.8	22.5	0.8	25.4				70	12.1	9.3	1.0	3.5	
			85/71	21.6	16.2	23.8	0.8	27.1				80	11.5	8.4	1.1	3.0	
	4.5	2.5	75/63	19.7	15.6	21.8	0.7	26.6		4.5	3.1	60	13.9	11.5	0.9	4.5	
			80/67	21.0	16.1	23.0	0.7	28.7				70	13.3	10.4	1.0	3.8	
			85/71	22.3	16.4	24.3	0.7	30.9				80	12.7	9.6	1.1	3.3	
	6.0	4.2	75/63	20.1	15.7	22.0	0.7	28.3		6.0	5.0	60	14.4	12.0	0.9	4.7	
			80/67	21.3	16.2	23.3	0.7	30.7				70	13.8	11.0	1.0	4.0	
			85/71	22.7	16.6	24.6	0.7	33.3				80	13.2	10.2	1.1	3.4	
70	3.0	1.2	75/63	18.2	14.9	20.6	0.9	19.9	50	3.0	1.5	60	14.3	11.8	0.9	4.6	
			80/67	19.3	15.4	21.8	0.9	21.2				70	13.8	10.9	1.0	4.0	
			85/71	20.5	15.8	23.0	0.9	22.6				80	13.2	10.0	1.1	3.4	
	4.5	2.4	75/63	18.8	15.1	21.0	0.8	22.1		4.5	2.9	60	15.6	13.2	0.9	5.1	
			80/67	20.0	15.6	22.2	0.8	23.7				70	15.1	12.3	1.0	4.4	
			85/71	21.2	16.1	23.5	0.8	25.4				80	14.5	11.3	1.1	3.8	
	6.0	3.9	75/63	19.1	15.3	21.2	0.8	23.4		6.0	4.7	60	16.3	13.9	0.9	5.3	
			80/67	20.3	15.7	22.5	0.8	25.2				70	15.7	12.9	1.0	4.6	
			85/71	21.6	16.3	23.8	0.8	27.2				80	15.1	11.9	1.1	3.9	
80	3.0	1.1	75/63	17.2	14.6	19.9	1.0	16.6	60	3.0	1.4	60	15.9	13.5	0.9	5.1	
			80/67	18.3	15.0	21.1	1.0	17.8				70	15.4	12.6	1.0	4.5	
			85/71	19.4	15.5	22.2	1.0	18.9				80	14.9	11.7	1.1	3.9	
	4.5	2.3	75/63	17.8	14.7	20.3	1.0	18.4		4.5	2.7	60	17.5	15.0	0.9	5.7	
			80/67	18.9	15.3	21.5	1.0	19.7				70	17.0	14.2	1.0	4.9	
			85/71	20.1	15.8	22.7	1.0	21.1				80	16.5	13.3	1.1	4.3	
	6.0	3.7	75/63	18.0	14.8	20.5	0.9	19.4		6.0	4.4	60	18.3	15.9	0.9	6.0	
			80/67	19.2	15.4	21.7	0.9	20.8				70	17.8	15.0	1.0	5.2	
			85/71	20.5	15.8	23.0	0.9	22.4				80	17.2	14.0	1.1	4.5	
90	3.0	1.1	75/63	16.2	14.1	19.2	1.2	13.9	70	3.0	1.3	60	17.6	15.1	0.9	5.8	
			80/67	17.3	14.7	20.3	1.2	14.9				70	17.2	14.4	1.0	5.0	
			85/71	18.4	15.2	21.5	1.2	15.8				80	16.8	13.5	1.1	4.4	
	4.5	2.2	75/63	16.7	14.4	19.6	1.1	15.3		4.5	2.6	60	19.5	17.1	0.9	6.5	
			80/67	17.8	14.9	20.7	1.1	16.4				70	19.0	16.2	1.0	5.5	
			85/71	19.0	15.3	21.9	1.1	17.6				80	18.5	15.3	1.1	4.8	
	6.0	3.6	75/63	17.0	14.5	19.8	1.1	16.1		6.0	4.2	60	20.5	18.1	0.9	6.8	
			80/67	18.2	14.9	20.9	1.0	17.3				70	19.9	17.1	1.0	5.8	
			85/71	19.4	15.4	22.2	1.0	18.6				80	19.3	16.1	1.1	5.0	
100	3.0	1.0	75/63	15.3	13.8	18.7	1.3	11.7	80	3.0	1.2	60	19.5	17.0	0.9	6.4	
			80/67	16.2	14.3	19.6	1.3	12.4				70	19.0	16.2	1.0	5.6	
			85/71	17.3	14.8	20.8	1.3	13.2				80	18.6	15.4	1.1	4.8	
	4.5	2.1	75/63	15.7	13.9	18.9	1.2	12.7		4.5	2.4	60	21.6	19.3	0.9	7.2	
			80/67	16.8	14.5	20.0	1.2	13.6				70	21.1	18.3	1.0	6.2	
			85/71	17.9	14.9	21.2	1.2	14.6				80	20.5	17.4	1.1	5.3	
	6.0	3.4	75/63	15.9	14.1	19.1	1.2	13.3		6.0	4.0	60	22.7	20.3	0.9	7.6	
			80/67	17.1	14.6	20.2	1.2	14.3				70	22.1	19.4	1.0	6.5	
			85/71	18.2	15.1	21.4	1.2	15.4				80	21.4	18.3	1.1	5.6	
110	3.0	1.0	75/63	14.3	13.4	18.1	1.5	9.8	90	3.0	1.2	60	21.3	18.9	0.9	7.1	
			80/67	15.2	13.9	19.0	1.5	10.4				70	20.9	18.1	1.0	6.1	
			85/71	16.2	14.4	20.1	1.5	11.1				80	19.7	16.5	1.1	5.1	
	4.5	2.0	75/63	14.7	13.6	18.3	1.4	10.6		4.5	2.3	60	22.9	20.6	0.9	7.6	
			80/67	15.7	14.1	19.3	1.4	11.3				70	22.3	19.6	1.0	6.5	
			85/71	16.8	14.6	20.4	1.4	12.2				80	21.7	18.6	1.1	5.6	
	6.0	3.2	75/63	15.0	13.7	18.5	1.4	11.1		6.0	3.8	60	24.0	21.7	0.9	8.0	
			80/67	16.0	14.1	19.5	1.3	11.9				70	23.4	20.7	1.0	6.9	
			85/71	17.1	14.7	20.6	1.3	12.8				80	22.7	19.6	1.1	5.9	

Extended Range - Anti-freeze required

AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings.

Unit performance may be interpolated. Extrapolation is not allowed.

For conditions other than rating conditions provided, consult the BST selection software.

Ratings below 40°F are with a methanol solution.

DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.

Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

RP Model Series - Residential Water Source Heat Pumps



Capacity Data 036 (1300 CFM) - Full Load																	
Cooling									Heating								
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP	
50	4.5	1.0	75/63	40.4	31.4	45.7	1.8	22.8	30	4.5	1.3	60	27.1	21.5	1.9	4.2	
			80/67	42.9	32.7	48.4	1.8	23.9				70	26.8	20.5	2.1	3.8	
			85/71	45.9	33.6	51.5	1.8	25.3				80	26.6	19.5	2.3	3.4	
	7.0	1.9	75/63	41.6	32.2	46.6	1.6	25.3		7.0	2.5	60	29.3	23.5	1.9	4.5	
			80/67	44.5	33.3	49.6	1.7	26.8				70	28.8	22.2	2.1	4.0	
			85/71	47.3	34.6	52.5	1.7	28.4				80	28.5	21.2	2.3	3.6	
	9.0	3.1	75/63	42.2	32.5	47.0	1.6	26.8		9.0	4.0	60	30.2	24.3	1.9	4.6	
			80/67	45.2	33.6	50.1	1.6	28.5				70	29.6	23.2	2.1	4.1	
			85/71	48.4	34.5	53.4	1.6	30.3				80	29.6	22.0	2.4	3.7	
60	4.5	0.9	75/63	38.8	30.8	44.6	1.9	20.1	40	4.5	1.2	60	30.7	24.8	1.9	4.6	
			80/67	41.2	31.9	47.2	2.0	21.0				70	30.4	23.9	2.1	4.2	
			85/71	44.1	32.9	50.1	2.0	22.3				80	30.1	22.9	2.4	3.7	
	7.0	1.8	75/63	39.9	31.5	45.4	1.8	22.2		7.0	2.3	60	33.6	27.5	2.0	5.0	
			80/67	42.7	32.6	48.3	1.8	23.5				70	32.9	26.3	2.2	4.4	
			85/71	45.8	33.5	51.4	1.8	25.0				80	32.4	25.0	2.4	3.9	
	9.0	3.0	75/63	40.4	32.0	45.7	1.7	23.3		9.0	3.7	60	34.8	28.5	2.0	5.1	
			80/67	43.4	32.9	48.8	1.7	24.9				70	34.1	27.3	2.2	4.5	
			85/71	46.5	33.9	51.9	1.8	26.6				80	33.4	26.0	2.4	4.0	
70	4.5	0.9	75/63	36.9	30.6	43.3	2.1	17.4	50	4.5	1.1	60	34.6	28.7	2.0	5.1	
			80/67	39.4	31.6	45.9	2.1	18.4				70	34.2	27.5	2.2	4.5	
			85/71	41.8	33.0	48.5	2.2	19.4				80	33.9	26.4	2.4	4.1	
	7.0	1.7	75/63	38.3	30.9	44.2	2.0	19.4		7.0	2.2	60	38.1	32.0	2.1	5.4	
			80/67	41.0	31.8	47.0	2.0	20.6				70	37.4	30.5	2.3	4.8	
			85/71	43.9	32.9	50.0	2.0	21.9				80	36.8	29.3	2.5	4.3	
	9.0	2.8	75/63	39.0	31.1	44.7	1.9	20.5		9.0	3.5	60	39.5	33.4	2.1	5.6	
			80/67	41.5	32.4	47.4	1.9	21.7				70	38.8	31.9	2.3	5.0	
			85/71	44.6	33.2	50.5	1.9	23.3				80	38.1	30.5	2.5	4.5	
80	4.5	0.8	75/63	35.5	29.6	42.4	2.3	15.3	60	4.5	1.1	60	38.7	32.6	2.1	5.5	
			80/67	36.9	31.4	44.3	2.3	15.8				70	38.3	31.5	2.3	4.9	
			85/71	38.0	32.2	45.9	2.3	16.2				80	37.9	30.3	2.5	4.4	
	7.0	1.6	75/63	36.6	30.1	43.1	2.2	16.9		7.0	2.1	60	42.8	36.5	2.1	5.9	
			80/67	39.2	31.2	45.8	2.2	17.9				70	42.1	35.3	2.3	5.3	
			85/71	41.1	33.2	48.1	2.2	18.8				80	41.5	33.8	2.6	4.8	
	9.0	2.7	75/63	37.3	30.4	43.6	2.1	17.8		9.0	3.3	60	44.7	38.4	2.2	6.1	
			80/67	39.7	31.7	46.1	2.1	18.9				70	43.8	36.9	2.4	5.5	
			85/71	42.7	32.4	49.1	2.1	20.3				80	43.1	35.4	2.6	4.9	
90	4.5	0.8	75/63	33.3	29.6	41.1	2.6	13.0	70	4.5	1.0	60	43.0	36.8	2.1	5.9	
			80/67	34.8	30.6	43.0	2.6	13.5				70	42.5	35.6	2.3	5.3	
			85/71	35.4	31.3	44.3	2.6	13.7				80	42.1	34.4	2.6	4.8	
	7.0	1.5	75/63	34.5	30.1	41.8	2.4	14.4		7.0	1.9	60	47.8	41.4	2.2	6.4	
			80/67	37.4	30.6	44.6	2.4	15.5				70	47.1	40.0	2.4	5.8	
			85/71	37.3	31.9	45.5	2.4	15.5				80	46.4	38.5	2.6	5.2	
	9.0	2.5	75/63	35.6	29.7	42.5	2.3	15.4		9.0	3.2	60	50.3	43.4	2.2	6.7	
			80/67	38.3	30.4	45.2	2.3	16.5				70	49.2	42.1	2.4	6.0	
			85/71	37.8	32.1	45.8	2.3	16.4				80	48.3	40.4	2.7	5.3	
100	4.5	0.7	75/63	31.6	28.9	40.2	2.8	11.2	80	4.5	0.9	60	47.5	41.3	2.2	6.4	
			80/67	35.8	26.2	43.7	2.9	12.4				70	47.0	40.0	2.4	5.8	
			85/71	34.5	31.0	44.0	2.9	12.1				80	46.5	38.7	2.6	5.2	
	7.0	1.5	75/63	34.1	27.3	41.6	2.7	12.8		7.0	1.8	60	53.0	46.7	2.3	6.9	
			80/67	36.8	27.3	44.3	2.7	13.8				70	52.2	45.0	2.5	6.2	
			85/71	35.7	31.4	44.6	2.7	13.4				80	51.5	43.4	2.7	5.6	
	9.0	2.4	75/63	33.3	29.6	41.1	2.6	13.0		9.0	3.0	60	55.9	49.0	2.3	7.2	
			80/67	35.7	30.9	43.6	2.6	13.9				70	54.9	47.1	2.5	6.5	
			85/71	36.4	31.6	45.0	2.6	14.2				80	53.7	45.6	2.7	5.8	
110	4.5	0.7	75/63	30.4	27.9	39.8	3.1	9.7	90	4.5	0.9	60	52.3	46.0	2.2	6.8	
			80/67	31.7	29.5	41.6	3.2	10.0				70	51.6	44.5	2.5	6.2	
			85/71	32.9	30.5	43.3	3.2	10.4				80	51.1	43.1	2.7	5.6	
	7.0	1.4	75/63	31.2	28.7	40.0	2.9	10.6		7.0	1.7	60	58.4	52.0	2.3	7.4	
			80/67	33.0	29.9	42.2	3.0	11.2				70	57.5	50.3	2.5	6.7	
			85/71	33.9	30.8	43.8	3.0	11.5				80	56.7	48.5	2.8	6.0	
	9.0	2.3	75/63	31.6	28.9	40.2	2.8	11.1		9.0	2.8	60	61.8	54.7	2.4	7.7	
			80/67	35.8	26.4	43.8	2.9	12.5				70	60.3	53.3	2.6	6.9	
			85/71	34.7	31.1	44.2	2.8	12.2				80	59.3	51.0	2.8	6.2	
Extended Range - Anti-freeze required AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating. Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings. Unit performance may be interpolated. Extrapolation is not allowed. For conditions other than rating conditions provided, consult the BST selection software. Ratings below 40°F are with a methanol solution. DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.																	

Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

RP Model Series - Residential Water Source Heat Pumps



Capacity Data 036 (970 CFM) - Part Load																	
Cooling									Heating								
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP	
50	4.5	1.0	75/63	30.9	24.1	34.0	1.0	29.7	30	4.5	1.3	60	20.5	16.6	1.4	4.4	
			80/67	32.9	24.8	36.0	1.0	31.8				70	19.7	15.5	1.5	3.8	
			85/71	34.9	25.5	38.0	1.0	33.9				80	18.6	13.7	1.7	3.2	
	7.0	1.9	75/63	31.9	24.5	34.7	0.9	33.6		7.0	2.4	60	21.7	17.7	1.4	4.6	
			80/67	33.8	25.2	36.6	0.9	36.2				70	20.8	16.3	1.5	4.0	
			85/71	36.0	25.9	38.8	0.9	39.3				80	19.8	14.9	1.7	3.4	
	9.0	3.2	75/63	32.3	24.6	35.0	0.9	35.8		9.0	3.9	60	22.3	18.5	1.4	4.8	
			80/67	34.4	25.4	37.1	0.9	39.1				70	21.3	16.9	1.5	4.1	
			85/71	36.6	26.0	39.2	0.9	42.5				80	20.4	15.2	1.7	3.5	
60	4.5	0.9	75/63	29.5	23.5	33.0	1.2	24.7	40	4.5	1.2	60	22.9	19.0	1.4	4.9	
			80/67	31.4	24.2	34.9	1.2	26.4				70	22.1	17.7	1.5	4.2	
			85/71	33.4	25.0	36.9	1.2	28.0				80	21.4	16.4	1.7	3.7	
	7.0	1.8	75/63	30.4	23.8	33.6	1.1	27.6		7.0	2.3	60	24.7	21.0	1.4	5.3	
			80/67	32.5	24.5	35.7	1.1	29.8				70	23.6	19.3	1.5	4.5	
			85/71	34.5	25.3	37.7	1.1	31.9				80	22.9	17.8	1.7	3.9	
	9.0	3.0	75/63	30.8	24.0	33.9	1.1	29.2		9.0	3.7	60	25.3	21.4	1.4	5.4	
			80/67	32.9	24.8	36.0	1.0	31.7				70	24.3	20.1	1.5	4.6	
			85/71	35.0	25.5	38.1	1.0	34.2				80	23.5	18.6	1.7	4.0	
70	4.5	0.9	75/63	28.0	23.1	32.0	1.4	20.6	50	4.5	1.1	60	25.8	22.1	1.4	5.5	
			80/67	30.0	23.7	33.9	1.4	22.0				70	25.0	20.5	1.5	4.8	
			85/71	32.0	24.3	36.0	1.4	23.4				80	24.3	19.3	1.7	4.1	
	7.0	1.7	75/63	29.0	23.3	32.6	1.3	22.9		7.0	2.1	60	27.7	23.7	1.4	5.9	
			80/67	30.9	24.0	34.6	1.3	24.6				70	26.8	22.4	1.5	5.1	
			85/71	32.9	24.7	36.6	1.3	26.3				80	26.1	21.1	1.7	4.4	
	9.0	2.8	75/63	29.4	23.4	32.9	1.2	24.1		9.0	3.5	60	28.7	24.8	1.4	6.1	
			80/67	31.3	24.2	34.9	1.2	26.0				70	27.9	23.6	1.6	5.3	
			85/71	33.5	24.8	37.0	1.2	28.1				80	27.0	21.9	1.7	4.6	
80	4.5	0.8	75/63	26.7	22.3	31.1	1.5	17.3	60	4.5	1.0	60	28.8	25.1	1.4	6.1	
			80/67	28.8	22.6	33.1	1.5	18.6				70	28.0	23.6	1.6	5.3	
			85/71	29.1	24.3	34.1	1.5	18.9				80	27.4	22.4	1.7	4.6	
	7.0	1.6	75/63	27.5	22.7	31.6	1.4	19.1		7.0	2.0	60	31.1	27.6	1.4	6.6	
			80/67	29.5	23.2	33.6	1.4	20.5				70	30.3	25.8	1.6	5.7	
			85/71	31.9	23.0	35.8	1.4	22.2				80	29.6	24.6	1.8	4.9	
	9.0	2.7	75/63	27.9	22.8	31.8	1.4	20.0		9.0	3.3	60	32.3	28.6	1.4	6.8	
			80/67	29.8	23.6	33.8	1.4	21.6				70	31.4	27.1	1.6	5.9	
			85/71	32.0	24.0	35.9	1.4	23.2				80	30.7	25.6	1.8	5.1	
90	4.5	0.8	75/63	25.3	21.8	30.2	1.7	14.5	70	4.5	1.0	60	32.0	28.4	1.4	6.7	
			80/67	26.8	23.0	31.9	1.7	15.3				70	31.3	26.8	1.6	5.8	
			85/71	27.1	23.6	32.8	1.7	15.5				80	30.7	25.6	1.8	5.1	
	7.0	1.6	75/63	25.8	22.4	30.5	1.6	15.8		7.0	1.9	60	34.7	31.3	1.4	7.2	
			80/67	27.8	23.0	32.5	1.6	17.0				70	34.0	29.5	1.6	6.3	
			85/71	30.6	21.6	34.9	1.6	18.7				80	33.3	28.2	1.8	5.5	
	9.0	2.6	75/63	26.4	22.2	30.9	1.6	16.7		9.0	3.1	60	36.2	32.5	1.4	7.5	
			80/67	28.0	23.4	32.6	1.6	17.8				70	35.3	31.2	1.6	6.5	
			85/71	29.0	24.2	34.0	1.6	18.4				80	34.5	29.7	1.8	5.7	
100	4.5	0.7	75/63	23.9	21.1	29.5	2.0	12.2	80	4.5	0.9	60	35.4	31.5	1.4	7.3	
			80/67	25.3	22.5	31.0	2.0	12.8				70	34.7	30.3	1.6	6.4	
			85/71	28.4	19.5	33.5	2.0	14.4				80	34.2	29.1	1.8	5.6	
	7.0	1.5	75/63	24.6	21.4	29.8	1.9	13.3		7.0	1.8	60	38.6	34.8	1.4	7.9	
			80/67	25.9	22.8	31.4	1.9	14.0				70	37.8	33.3	1.6	6.9	
			85/71	27.2	23.6	32.9	1.9	14.7				80	37.1	31.9	1.8	6.0	
	9.0	2.5	75/63	24.9	21.6	30.0	1.8	13.9		9.0	2.9	60	40.3	36.6	1.4	8.2	
			80/67	26.2	22.9	31.5	1.8	14.6				70	39.5	35.0	1.6	7.1	
			85/71	27.5	23.7	33.1	1.8	15.4				80	38.6	33.6	1.8	6.2	
110	4.5	0.7	75/63	22.5	20.5	28.7	2.2	10.1	90	4.5	0.9	60	38.9	35.1	1.4	8.0	
			80/67	24.1	21.5	30.4	2.2	10.8				70	38.2	33.8	1.6	7.0	
			85/71	24.7	22.8	31.6	2.2	11.1				80	37.6	32.5	1.8	6.1	
	7.0	1.4	75/63	23.1	21.0	29.0	2.1	11.0		7.0	1.7	60	42.6	38.7	1.5	8.5	
			80/67	24.8	21.7	30.8	2.1	11.8				70	41.7	37.2	1.6	7.4	
			85/71	27.5	19.7	33.0	2.1	13.2				80	40.8	35.6	1.8	6.5	
	9.0	2.3	75/63	23.4	21.1	29.2	2.0	11.5		9.0	2.8	60	44.6	40.6	1.5	8.8	
			80/67	25.2	21.8	31.0	2.0	12.4				70	43.5	39.0	1.7	7.6	
			85/71	25.8	23.1	32.1	2.0	12.7				80	42.6	37.5	1.9	6.7	
Extended Range - Anti-freeze required AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating. Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings. Unit performance may be interpolated. Extrapolation is not allowed. For conditions other than rating conditions provided, consult the BST selection software. Ratings below 40°F are with a methanol solution. DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.																	

Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

RP Model Series - Residential Water Source Heat Pumps



Capacity Data 048 (1675 CFM) - Full Load																
Cooling									Heating							
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP
50	6.0	1.3	75/63	53.3	41.4	60.2	2.3	23.4	30	6.0	1.8	60	35.4	28.3	2.3	4.6
			80/67	56.6	43.1	63.7	2.3	24.4				70	34.6	26.9	2.5	4.0
			85/71	60.5	43.8	67.8	2.4	25.4				80	35.1	26.4	2.8	3.7
	9.0	2.7	75/63	54.8	42.5	61.1	2.1	26.6		9.0	3.6	60	37.2	30.1	2.3	4.7
			80/67	58.7	43.4	65.2	2.1	27.8				70	37.8	28.9	2.6	4.3
			85/71	62.7	44.8	69.4	2.2	29.0				80	37.5	28.8	2.8	3.9
	12.0	4.5	75/63	55.9	42.4	61.9	2.0	28.4		12.0	5.8	60	38.3	31.2	2.3	4.8
			80/67	59.8	44.0	65.9	2.0	29.9				70	39.1	31.4	2.6	4.4
			85/71	63.6	45.5	70.0	2.0	31.2				80	39.1	30.1	2.9	4.0
60	6.0	1.3	75/63	51.0	40.8	58.6	2.5	20.4	40	6.0	1.7	60	40.1	33.1	2.3	5.0
			80/67	54.4	42.3	62.2	2.5	21.4				70	39.5	31.6	2.6	4.5
			85/71	58.2	43.1	66.2	2.6	22.3				80	39.4	30.3	2.9	4.0
	9.0	2.6	75/63	52.7	41.6	59.7	2.3	22.8		9.0	3.4	60	42.6	35.6	2.4	5.2
			80/67	56.5	42.6	63.6	2.4	24.0				70	42.2	34.4	2.6	4.7
			85/71	60.4	43.9	67.7	2.4	25.2				80	40.9	31.7	2.9	4.1
	12.0	4.3	75/63	53.8	41.5	60.5	2.2	24.3		12.0	5.4	60	44.1	36.9	2.4	5.4
			80/67	57.6	43.1	64.4	2.2	25.7				70	44.0	35.1	2.7	4.8
			85/71	61.3	44.7	68.4	2.3	26.9				80	42.1	33.1	2.9	4.2
70	6.0	1.2	75/63	49.1	39.7	57.3	2.8	17.8	50	6.0	1.6	60	45.4	38.3	2.4	5.5
			80/67	52.4	41.0	60.8	2.8	18.7				70	44.7	36.7	2.7	4.9
			85/71	55.5	43.0	64.3	2.8	19.5				80	44.1	35.1	3.0	4.4
	9.0	2.5	75/63	50.7	40.4	58.4	2.6	19.8		9.0	3.2	60	48.6	41.2	2.5	5.8
			80/67	54.3	41.6	62.1	2.6	21.0				70	47.7	39.4	2.7	5.1
			85/71	58.0	43.0	66.0	2.6	22.1				80	47.3	38.3	3.0	4.6
	12.0	4.1	75/63	51.7	40.7	59.0	2.5	21.0		12.0	5.1	60	50.4	43.2	2.5	5.9
			80/67	55.3	42.2	62.8	2.5	22.3				70	49.4	41.2	2.8	5.2
			85/71	58.9	43.8	66.6	2.5	23.4				80	49.0	38.9	3.0	4.7
80	6.0	1.2	75/63	47.0	38.8	56.0	3.0	15.6	60	6.0	1.5	60	51.1	43.7	2.5	6.0
			80/67	50.2	40.2	59.5	3.1	16.4				70	50.3	42.0	2.8	5.3
			85/71	51.4	42.3	61.6	3.1	16.7				80	49.4	40.2	3.1	4.7
	9.0	2.3	75/63	48.6	39.6	57.0	2.8	17.3		9.0	3.0	60	54.9	47.4	2.6	6.2
			80/67	52.0	40.9	60.6	2.8	18.3				70	53.9	45.4	2.8	5.6
			85/71	54.8	43.5	63.9	2.9	19.1				80	52.8	43.1	3.1	5.0
	12.0	3.9	75/63	49.3	40.0	57.5	2.7	18.2		12.0	4.9	60	57.2	49.7	2.6	6.4
			80/67	53.0	41.2	61.3	2.7	19.4				70	56.0	47.6	2.9	5.7
			85/71	56.5	43.0	64.9	2.8	20.5				80	54.9	44.9	3.1	5.1
90	6.0	1.1	75/63	44.6	38.5	54.6	3.3	13.5	70	6.0	1.4	60	57.3	49.4	2.6	6.4
			80/67	47.0	40.2	57.4	3.4	14.0				70	56.2	47.6	2.9	5.7
			85/71	46.8	40.7	58.6	3.4	14.0				80	55.0	45.7	3.2	5.1
	9.0	2.2	75/63	46.5	38.7	55.7	3.1	15.0		9.0	2.8	60	61.6	53.8	2.7	6.7
			80/67	50.4	38.7	59.6	3.1	16.1				70	60.5	51.7	3.0	6.0
			85/71	48.5	41.3	59.5	3.1	15.6				80	59.2	49.2	3.2	5.4
	12.0	3.7	75/63	47.2	39.0	56.1	3.0	15.8		12.0	4.6	60	64.4	56.4	2.8	6.9
			80/67	50.5	40.8	59.6	3.0	16.8				70	63.1	54.1	3.0	6.2
			85/71	54.0	42.0	63.3	3.0	17.8				80	61.4	51.9	3.3	5.5
100	6.0	1.0	75/63	42.8	37.1	53.7	3.7	11.7	80	6.0	1.4	60	63.1	55.2	2.7	6.8
			80/67	43.0	38.8	55.1	3.7	11.7				70	62.3	53.4	3.0	6.1
			85/71	45.0	40.1	57.7	3.7	12.1				80	61.1	51.3	3.3	5.5
	9.0	2.2	75/63	43.7	38.5	54.1	3.4	12.8		9.0	2.7	60	68.7	60.5	2.8	7.1
			80/67	46.9	40.0	57.4	3.5	13.6				70	67.4	58.3	3.1	6.4
			85/71	46.8	40.7	58.6	3.4	13.6				80	65.9	55.7	3.4	5.8
	12.0	3.6	75/63	45.0	38.0	54.8	3.3	13.6		12.0	4.4	60	72.0	63.6	2.9	7.3
			80/67	47.9	40.1	58.0	3.3	14.4				70	70.4	61.1	3.1	6.6
			85/71	50.0	41.8	60.7	3.3	15.0				80	68.7	58.3	3.4	5.9
110	6.0	1.0	75/63	39.4	36.7	52.0	4.1	9.7	90	6.0	1.3	60	69.7	61.4	2.8	7.2
			80/67	41.6	38.3	54.7	4.1	10.1				70	68.7	59.5	3.1	6.5
			85/71	48.6	32.3	60.0	4.2	11.5				80	67.4	57.3	3.4	5.8
	9.0	2.1	75/63	42.3	36.2	53.5	3.8	11.1		9.0	2.6	60	76.2	67.4	3.0	7.5
			80/67	42.9	38.7	55.2	3.8	11.2				70	74.3	64.9	3.2	6.8
			85/71	44.6	40.0	57.6	3.8	11.6				80	72.9	62.4	3.5	6.1
	12.0	3.4	75/63	42.8	37.1	53.7	3.7	11.6		12.0	4.2	60	79.9	70.9	3.1	7.7
			80/67	44.0	39.1	55.8	3.7	12.0				70	77.8	68.2	3.3	6.9
			85/71	45.5	40.3	58.0	3.7	12.3				80	76.1	65.4	3.6	6.2

Extended Range - Anti-freeze required

AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.
Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings.

Unit performance may be interpolated. Extrapolation is not allowed.

For conditions other than rating conditions provided, consult the BST selection software.

Ratings below 40°F are with a methanol solution.

DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.

Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

RP Model Series - Residential Water Source Heat Pumps



Capacity Data 048 (1300 CFM) - Part Load																	
Cooling									Heating								
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP	
50	6.0	1.4	75/63	40.2	32.0	44.0	1.3	31.4	30	6.0	1.8	60	23.9	18.9	1.7	4.2	
			80/67	43.2	32.9	47.0	1.3	33.8				70	22.9	17.8	1.9	3.6	
			85/71	46.0	34.2	49.8	1.3	36.2				80	22.4	16.4	2.1	3.2	
	9.0	2.8	75/63	41.7	32.5	45.1	1.2	35.8		9.0	3.5	60	25.3	20.7	1.7	4.5	
			80/67	44.6	33.6	48.1	1.1	39.0				70	23.3	17.3	1.9	3.7	
			85/71	47.9	34.5	51.3	1.1	42.4				80	23.6	17.6	2.1	3.3	
	12.0	4.5	75/63	42.4	32.7	45.7	1.1	38.5		12.0	5.5	60	26.3	21.7	1.7	4.6	
			80/67	45.6	33.8	48.8	1.1	42.4				70	25.3	20.1	1.9	4.0	
			85/71	48.8	34.9	52.0	1.1	46.2				80	24.3	18.2	2.1	3.4	
60	6.0	1.3	75/63	38.2	31.0	42.4	1.5	25.9	40	6.0	1.7	60	27.5	22.7	1.7	4.9	
			80/67	40.8	32.1	45.1	1.5	27.7				70	26.5	21.1	1.9	4.2	
			85/71	41.4	33.3	46.4	1.5	28.4				80	25.6	19.6	2.1	3.6	
	9.0	2.6	75/63	39.5	31.5	43.4	1.4	29.1		9.0	3.3	60	29.0	24.1	1.7	5.1	
			80/67	42.4	32.6	46.3	1.3	31.5				70	28.0	22.8	1.9	4.4	
			85/71	45.5	33.5	49.4	1.3	34.1				80	26.7	20.4	2.1	3.8	
	12.0	4.3	75/63	40.1	31.9	43.8	1.3	30.9		12.0	5.3	60	29.5	24.5	1.7	5.2	
			80/67	43.2	32.9	46.9	1.3	33.8				70	29.1	23.9	1.9	4.6	
			85/71	46.1	34.2	49.9	1.3	36.7				80	28.4	22.6	2.1	4.0	
70	6.0	1.2	75/63	36.0	30.1	40.7	1.7	21.5	50	6.0	1.6	60	31.6	27.0	1.6	5.6	
			80/67	36.3	31.2	41.8	1.7	21.8				70	30.5	25.1	1.9	4.8	
			85/71	38.3	32.3	44.0	1.7	23.1				80	29.5	23.4	2.1	4.2	
	9.0	2.5	75/63	37.3	30.6	41.7	1.6	23.9		9.0	3.1	60	33.3	28.7	1.6	5.9	
			80/67	40.0	31.7	44.4	1.6	25.8				70	32.0	26.7	1.9	5.1	
			85/71	40.0	32.8	45.3	1.5	26.0				80	30.8	24.7	2.1	4.3	
	12.0	4.1	75/63	37.9	30.9	42.2	1.5	25.3		12.0	5.0	60	34.3	29.4	1.6	6.1	
			80/67	40.6	32.2	45.0	1.5	27.4				70	32.9	27.5	1.9	5.2	
			85/71	41.4	33.3	46.4	1.5	28.3				80	31.5	25.3	2.1	4.4	
80	6.0	1.2	75/63	33.1	29.5	38.6	1.9	17.5	60	6.0	1.5	60	36.0	31.4	1.6	6.4	
			80/67	37.9	26.5	42.7	1.9	20.0				70	34.8	29.5	1.9	5.5	
			85/71	36.2	31.6	42.5	1.9	19.2				80	33.7	27.6	2.1	4.7	
	9.0	2.4	75/63	34.0	29.9	39.3	1.8	19.2		9.0	2.9	60	38.1	33.6	1.6	6.8	
			80/67	35.9	31.0	41.5	1.8	20.3				70	36.7	31.4	1.9	5.8	
			85/71	37.5	32.0	43.5	1.8	21.4				80	35.5	29.3	2.1	5.0	
	12.0	3.9	75/63	35.6	29.9	40.4	1.7	20.8		12.0	4.8	60	39.4	34.6	1.6	7.0	
			80/67	36.0	31.1	41.6	1.7	21.1				70	37.8	32.5	1.9	6.0	
			85/71	38.3	32.3	44.1	1.7	22.7				80	36.5	30.3	2.1	5.1	
90	6.0	1.1	75/63	31.6	28.1	37.5	2.1	14.8	70	6.0	1.4	60	40.7	36.0	1.7	7.2	
			80/67	35.3	26.2	40.8	2.1	16.5				70	39.3	34.0	1.9	6.2	
			85/71	38.5	25.3	43.8	2.1	18.0				80	38.1	32.0	2.1	5.3	
	9.0	2.3	75/63	33.4	27.4	38.8	2.0	16.6		9.0	2.8	60	43.1	38.7	1.7	7.6	
			80/67	36.7	26.5	41.8	2.0	18.3				70	41.6	36.4	1.9	6.5	
			85/71	35.2	31.2	41.8	2.0	17.6				80	40.3	34.1	2.1	5.6	
	12.0	3.8	75/63	32.6	29.3	38.3	1.9	16.7		12.0	4.5	60	44.5	40.2	1.7	7.8	
			80/67	34.5	30.5	40.4	1.9	17.8				70	42.9	37.8	1.9	6.7	
			85/71	35.9	31.5	42.4	1.9	18.6				80	41.5	35.3	2.1	5.7	
100	6.0	1.1	75/63	29.3	27.4	36.1	2.4	12.2	80	6.0	1.3	60	45.5	40.9	1.7	8.0	
			80/67	31.5	28.6	38.3	2.4	13.1				70	44.1	38.7	1.9	6.8	
			85/71	32.7	30.4	40.2	2.4	13.6				80	42.8	36.7	2.1	5.9	
	9.0	2.2	75/63	30.3	27.8	36.7	2.3	13.3		9.0	2.6	60	48.4	43.9	1.7	8.3	
			80/67	32.6	28.9	39.1	2.3	14.3				70	46.8	41.5	1.9	7.1	
			85/71	33.6	30.7	40.7	2.3	14.8				80	45.4	39.2	2.2	6.2	
	12.0	3.6	75/63	30.9	27.9	37.0	2.2	14.0		12.0	4.3	60	50.3	45.8	1.7	8.6	
			80/67	34.5	26.7	40.3	2.2	15.7				70	48.4	43.2	1.9	7.3	
			85/71	34.3	30.9	41.2	2.2	15.6				80	46.8	40.8	2.2	6.3	
110	6.0	1.0	75/63	27.2	26.5	34.8	2.7	10.1	90	6.0	1.3	60	50.4	45.7	1.7	8.6	
			80/67	29.5	27.7	37.1	2.7	10.9				70	49.1	43.5	1.9	7.4	
			85/71	31.7	28.9	39.4	2.7	11.7				80	47.7	41.5	2.2	6.4	
	9.0	2.1	75/63	28.1	26.9	35.3	2.6	10.9		9.0	2.5	60	53.8	49.2	1.8	8.9	
			80/67	30.3	28.2	37.6	2.6	11.9				70	52.3	46.9	2.0	7.7	
			85/71	32.1	30.2	39.8	2.6	12.6				80	50.7	44.4	2.2	6.7	
	12.0	3.5	75/63	28.6	27.1	35.6	2.5	11.4		12.0	4.1	60	55.9	51.2	1.8	9.1	
			80/67	31.0	28.2	38.0	2.5	12.4				70	54.2	48.8	2.0	7.8	
			85/71	33.4	29.6	40.5	2.5	13.5				80	52.4	46.4	2.3	6.8	
Extended Range - Anti-freeze required AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating. Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings. Unit performance may be interpolated. Extrapolation is not allowed. For conditions other than rating conditions provided, consult the BST selection software. Ratings below 40°F are with a methanol solution. DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.																	

Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

RP Model Series - Residential Water Source Heat Pumps



Capacity Data 060 (1950 CFM) - Full Load																	
Cooling									Heating								
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP	
50	7.5	1.2	75/63	65.7	49.7	74.6	2.9	22.8	30	7.5	1.5	60	45.3	35.9	3.0	4.4	
			80/67	69.9	51.1	79.0	2.9	23.9				70	44.8	34.2	3.3	4.0	
			85/71	74.3	52.7	83.7	3.0	25.2				80	43.5	32.0	3.6	3.5	
	11.0	2.5	75/63	67.5	50.4	75.9	2.7	25.2		11.0	2.9	60	47.7	38.2	3.0	4.6	
			80/67	71.9	51.9	80.5	2.7	26.5				70	46.8	36.5	3.3	4.1	
			85/71	76.7	53.2	85.3	2.7	28.1				80	46.5	35.1	3.7	3.7	
	15.0	4.0	75/63	68.4	50.8	76.4	2.6	26.5		15.0	4.8	60	49.0	39.7	3.1	4.7	
			80/67	72.9	52.4	81.1	2.6	28.0				70	48.9	37.5	3.4	4.3	
			85/71	77.8	53.3	86.1	2.6	29.7				80	47.8	36.8	3.7	3.8	
60	7.5	1.2	75/63	63.4	48.6	73.2	3.2	20.1	40	7.5	1.4	60	51.3	41.9	3.1	4.8	
			80/67	67.5	49.9	77.5	3.2	21.0				70	50.6	40.2	3.4	4.4	
			85/71	72.0	51.2	82.1	3.2	22.2				80	50.1	36.9	3.7	3.9	
	11.0	2.3	75/63	65.0	49.3	74.2	3.0	22.0		11.0	2.8	60	54.2	44.8	3.2	5.0	
			80/67	69.3	50.8	78.7	3.0	23.2				70	53.3	42.6	3.5	4.5	
			85/71	74.2	51.9	83.6	3.0	24.6				80	52.7	41.2	3.8	4.1	
	15.0	3.8	75/63	65.9	49.6	74.8	2.9	23.0		15.0	4.5	60	56.0	46.5	3.2	5.1	
			80/67	70.2	51.4	79.3	2.9	24.3				70	54.9	44.2	3.5	4.6	
			85/71	75.2	52.4	84.3	2.9	25.9				80	54.1	41.9	3.8	4.2	
70	7.5	1.1	75/63	60.9	47.5	71.5	3.5	17.6	50	7.5	1.3	60	58.0	48.4	3.2	5.3	
			80/67	64.8	49.0	75.7	3.5	18.5				70	57.0	46.3	3.5	4.7	
			85/71	68.9	50.9	80.0	3.5	19.5				80	55.8	44.3	3.9	4.2	
	11.0	2.2	75/63	62.4	48.3	72.5	3.3	19.2		11.0	2.6	60	61.7	52.0	3.3	5.5	
			80/67	66.5	50.0	76.8	3.3	20.3				70	60.5	49.7	3.6	4.9	
			85/71	71.4	50.9	81.7	3.3	21.6				80	59.1	46.5	3.9	4.4	
	15.0	3.6	75/63	63.4	48.7	73.2	3.2	20.1		15.0	4.2	60	63.8	54.2	3.3	5.6	
			80/67	67.7	50.2	77.6	3.2	21.3				70	62.4	51.9	3.6	5.0	
			85/71	72.4	51.2	82.4	3.2	22.7				80	60.8	49.1	4.0	4.5	
80	7.5	1.0	75/63	58.3	46.3	70.0	3.8	15.4	60	7.5	1.2	60	65.3	55.3	3.4	5.7	
			80/67	62.1	48.1	74.0	3.8	16.2				70	63.9	53.2	3.7	5.1	
			85/71	66.2	49.6	78.3	3.9	17.0				80	63.7	50.9	4.0	4.7	
	11.0	2.1	75/63	60.1	46.9	71.0	3.6	16.8		11.0	2.5	60	69.8	59.7	3.4	6.0	
			80/67	64.1	48.5	75.3	3.6	17.7				70	68.0	57.4	3.7	5.3	
			85/71	68.4	50.1	79.8	3.6	18.8				80	67.2	54.5	4.1	4.8	
	15.0	3.4	75/63	60.8	47.4	71.5	3.5	17.5		15.0	4.0	60	72.5	62.1	3.5	6.1	
			80/67	65.0	48.8	75.8	3.5	18.6				70	70.7	58.9	3.8	5.5	
			85/71	69.5	50.3	80.4	3.5	19.8				80	69.2	55.8	4.1	4.9	
90	7.5	1.0	75/63	55.8	45.7	68.5	4.2	13.4	70	7.5	1.2	60	72.8	62.7	3.5	6.1	
			80/67	59.5	47.1	72.4	4.2	14.2				70	71.3	60.5	3.8	5.5	
			85/71	63.7	48.1	76.9	4.3	14.9				80	70.1	58.0	4.1	5.0	
	11.0	2.0	75/63	57.2	46.3	69.3	3.9	14.6		11.0	2.3	60	78.3	67.8	3.6	6.4	
			80/67	61.3	47.6	73.6	4.0	15.5				70	76.3	65.2	3.9	5.8	
			85/71	65.4	49.2	77.9	4.0	16.4				80	75.1	62.1	4.2	5.2	
	15.0	3.3	75/63	58.2	46.3	69.9	3.8	15.3		15.0	3.8	60	81.4	70.8	3.6	6.6	
			80/67	62.2	48.0	74.1	3.8	16.2				70	79.4	67.2	3.9	5.9	
			85/71	66.7	49.2	78.7	3.9	17.3				80	77.8	64.7	4.3	5.3	
100	7.5	0.9	75/63	53.3	44.5	67.3	4.6	11.7	80	7.5	1.1	60	80.9	70.1	3.6	6.6	
			80/67	56.9	46.1	71.1	4.6	12.3				70	79.0	67.9	3.9	5.9	
			85/71	60.8	47.4	75.3	4.7	13.0				80	78.0	65.0	4.3	5.3	
	11.0	1.9	75/63	54.9	44.8	68.1	4.3	12.7		11.0	2.2	60	86.9	76.3	3.7	6.9	
			80/67	58.7	46.4	72.1	4.4	13.5				70	85.1	72.7	4.0	6.2	
			85/71	62.5	48.3	76.1	4.4	14.3				80	83.1	70.6	4.4	5.5	
	15.0	3.1	75/63	55.6	45.5	68.4	4.2	13.3		15.0	3.6	60	90.5	79.8	3.8	7.0	
			80/67	59.4	47.1	72.3	4.2	14.1				70	88.4	76.2	4.1	6.3	
			85/71	63.4	48.8	76.7	4.2	14.9				80	86.1	72.8	4.4	5.7	
110	7.5	0.9	75/63	50.5	43.6	65.8	5.0	10.0	90	7.5	1.0	60	89.0	78.0	3.7	7.0	
			80/67	54.1	45.1	69.8	5.1	10.6				70	87.0	75.5	4.1	6.3	
			85/71	57.9	46.5	73.9	5.2	11.2				80	85.5	72.2	4.4	5.7	
	11.0	1.8	75/63	52.1	44.0	66.6	4.8	10.9		11.0	2.1	60	95.8	84.3	3.8	7.3	
			80/67	55.8	45.6	70.7	4.8	11.6				70	93.7	81.8	4.2	6.6	
			85/71	59.6	47.2	74.6	4.8	12.3				80	91.6	78.2	4.6	5.9	
	15.0	2.9	75/63	52.9	44.2	67.1	4.6	11.4		15.0	3.4	60	100.0	88.1	3.9	7.5	
			80/67	56.7	45.6	71.1	4.7	12.2				70	97.6	85.5	4.3	6.7	
			85/71	60.7	47.4	75.3	4.7	12.9				80	95.2	81.4	4.6	6.0	
Extended Range - Anti-freeze required AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating. Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings. Unit performance may be interpolated. Extrapolation is not allowed. For conditions other than rating conditions provided, consult the BST selection software. Ratings below 40°F are with a methanol solution. DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.																	

Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

RP Model Series - Residential Water Source Heat Pumps



Capacity Data 060 (1575 CFM) Part Load																	
Cooling									Heating								
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP	
50	7.5	1.2	75/63	51.3	39.4	56.4	1.7	30.2	30	7.5	1.5	60	32.7	26.6	2.0	4.7	
			80/67	54.6	40.6	59.7	1.7	32.3				70	31.0	24.4	2.3	4.0	
			85/71	58.0	41.5	63.2	1.7	34.5				80	29.6	21.9	2.5	3.5	
	11.0	2.5	75/63	52.7	40.0	57.6	1.6	33.2		11.0	2.9	60	34.0	28.0	2.0	4.9	
			80/67	56.3	41.0	61.1	1.6	35.8				70	32.3	25.5	2.3	4.2	
			85/71	59.9	42.0	64.7	1.6	38.5				80	30.5	23.2	2.5	3.6	
	15.0	4.0	75/63	53.6	40.4	58.2	1.5	34.9		15.0	4.7	60	34.7	28.7	2.0	5.0	
			80/67	57.0	41.5	61.7	1.5	37.6				70	33.0	26.1	2.3	4.3	
			85/71	60.9	42.6	65.5	1.5	40.7				80	31.0	23.6	2.5	3.6	
60	7.5	1.2	75/63	48.7	38.3	54.4	1.9	25.6	40	7.5	1.4	60	37.3	31.4	2.1	5.3	
			80/67	51.9	39.4	57.7	1.9	27.3				70	35.8	28.9	2.3	4.6	
			85/71	55.1	40.6	60.9	1.9	29.1				80	34.3	26.6	2.5	4.0	
	11.0	2.3	75/63	50.1	38.9	55.5	1.8	28.0		11.0	2.7	60	38.9	33.1	2.1	5.5	
			80/67	53.5	40.1	58.9	1.8	30.1				70	37.2	30.6	2.3	4.8	
			85/71	57.0	41.2	62.4	1.8	32.4				80	35.6	28.1	2.5	4.1	
	15.0	3.8	75/63	50.9	39.2	56.1	1.7	29.4		15.0	4.4	60	39.8	34.1	2.1	5.6	
			80/67	54.3	40.4	59.5	1.7	31.7				70	38.2	31.4	2.3	4.9	
			85/71	57.9	41.5	63.1	1.7	34.1				80	36.5	28.8	2.5	4.2	
70	7.5	1.1	75/63	46.0	37.2	52.4	2.1	21.6	50	7.5	1.3	60	42.5	36.5	2.1	6.0	
			80/67	49.1	38.4	55.5	2.1	23.1				70	40.9	34.1	2.3	5.2	
			85/71	52.3	39.5	58.8	2.1	24.6				80	39.4	31.7	2.6	4.5	
	11.0	2.2	75/63	47.4	37.7	53.4	2.0	23.6		11.0	2.6	60	44.5	38.6	2.1	6.2	
			80/67	50.6	39.0	56.6	2.0	25.3				70	42.8	36.1	2.3	5.4	
			85/71	53.9	40.2	60.0	2.0	27.1				80	41.1	33.3	2.6	4.7	
	15.0	3.6	75/63	48.0	38.0	53.9	2.0	24.6		15.0	4.2	60	45.7	39.9	2.1	6.4	
			80/67	51.4	39.3	57.2	1.9	26.5				70	43.9	37.3	2.3	5.5	
			85/71	54.8	40.5	60.7	1.9	28.6				80	42.2	34.1	2.6	4.8	
80	7.5	1.0	75/63	43.3	36.0	50.3	2.4	18.1	60	7.5	1.2	60	48.1	42.0	2.1	6.7	
			80/67	46.2	37.4	53.4	2.4	19.4				70	46.4	39.5	2.4	5.8	
			85/71	49.3	38.6	56.5	2.4	20.7				80	44.8	36.9	2.6	5.0	
	11.0	2.1	75/63	44.6	36.6	51.4	2.3	19.8		11.0	2.4	60	50.5	44.6	2.1	6.9	
			80/67	47.8	38.0	54.5	2.3	21.2				70	48.7	42.0	2.4	6.0	
			85/71	51.0	39.1	57.8	2.2	22.8				80	46.8	39.2	2.6	5.2	
	15.0	3.4	75/63	45.3	37.0	51.8	2.2	20.6		15.0	4.0	60	51.9	46.1	2.1	7.1	
			80/67	48.5	38.2	55.1	2.2	22.2				70	49.9	43.4	2.4	6.2	
			85/71	51.9	39.3	58.4	2.2	23.9				80	48.0	40.5	2.6	5.3	
90	7.5	1.0	75/63	40.5	34.9	48.4	2.7	15.2	70	7.5	1.2	60	54.1	48.3	2.1	7.4	
			80/67	43.4	36.3	51.4	2.7	16.2				70	52.0	45.2	2.4	6.4	
			85/71	46.4	37.4	54.4	2.7	17.3				80	50.2	42.5	2.6	5.6	
	11.0	2.0	75/63	41.8	35.4	49.3	2.5	16.4		11.0	2.3	60	56.6	50.8	2.2	7.7	
			80/67	44.8	36.7	52.3	2.5	17.7				70	54.7	48.2	2.4	6.7	
			85/71	47.9	38.1	55.5	2.5	19.0				80	52.7	45.3	2.7	5.8	
	15.0	3.3	75/63	42.4	35.8	49.7	2.5	17.1		15.0	3.8	60	58.3	52.7	2.2	7.9	
			80/67	45.5	37.1	52.8	2.5	18.5				70	56.4	49.9	2.4	6.9	
			85/71	48.7	38.4	56.0	2.4	19.9				80	54.2	46.9	2.7	6.0	
100	7.5	0.9	75/63	37.7	33.8	46.5	3.0	12.6	80	7.5	1.1	60	60.5	54.7	2.2	8.2	
			80/67	40.5	35.1	49.4	3.0	13.5				70	58.7	51.9	2.4	7.2	
			85/71	43.4	36.4	52.3	3.0	14.4				80	56.8	49.1	2.7	6.2	
	11.0	1.9	75/63	38.8	34.3	47.2	2.9	13.6		11.0	2.2	60	63.9	58.2	2.2	8.6	
			80/67	41.8	35.6	50.2	2.9	14.7				70	61.9	55.4	2.4	7.5	
			85/71	44.9	36.8	53.4	2.8	15.8				80	59.7	52.3	2.7	6.5	
	15.0	3.1	75/63	39.4	34.6	47.6	2.8	14.1		15.0	3.6	60	65.9	60.4	2.2	8.9	
			80/67	42.3	36.2	50.6	2.8	15.2				70	63.8	57.4	2.4	7.7	
			85/71	45.7	37.0	53.9	2.8	16.5				80	61.5	54.2	2.7	6.7	
110	7.5	0.9	75/63	34.6	33.0	44.5	3.4	10.3	90	7.5	1.0	60	66.2	60.5	2.2	8.9	
			80/67	37.5	34.1	47.4	3.4	11.2				70	64.3	57.5	2.4	7.8	
			85/71	40.0	36.2	50.2	3.4	11.9				80	62.2	54.6	2.7	6.8	
	11.0	1.8	75/63	35.8	33.3	45.2	3.2	11.1		11.0	2.1	60	70.1	64.5	2.2	9.5	
			80/67	38.8	34.4	48.3	3.2	12.1				70	67.7	61.1	2.4	8.2	
			85/71	41.7	35.8	51.2	3.2	13.0				80	65.5	58.2	2.7	7.2	
	15.0	2.9	75/63	36.5	33.3	45.7	3.1	11.6		15.0	3.4	60	72.3	66.8	2.2	9.8	
			80/67	39.4	34.7	48.7	3.1	12.6				70	69.7	63.5	2.4	8.5	
			85/71	42.3	36.2	51.6	3.1	13.6				80	67.5	60.3	2.7	7.4	
Extended Range - Anti-freeze required AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating. Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings. Unit performance may be interpolated. Extrapolation is not allowed. For conditions other than rating conditions provided, consult the BST selection software. Ratings below 40°F are with a methanol solution. DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.																	

Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

RP Model Series - Residential Water Source Heat Pumps



Capacity Data 070 (2100 CFM) Full Load																	
Cooling									Heating								
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP	
50	9.0	1.6	75/63	73.8	54.6	84.6	3.5	21.3	30	9.0	1.9	60	52.8	40.9	3.5	4.4	
			80/67	78.7	56.3	89.8	3.5	22.4				70	51.9	41.0	3.8	4.0	
			85/71	83.9	57.7	95.2	3.6	23.5				80	51.5	38.7	4.2	3.6	
	13.0	3.2	75/63	75.5	55.7	85.8	3.3	23.2		13.0	3.8	60	55.4	44.1	3.5	4.6	
			80/67	80.9	57.2	91.3	3.3	24.5				70	55.0	42.9	3.9	4.1	
			85/71	86.4	58.4	97.0	3.3	25.8				80	52.0	39.1	4.2	3.6	
	17.5	5.2	75/63	76.6	56.0	86.5	3.2	24.3		17.5	6.2	60	57.8	46.0	3.6	4.7	
			80/67	82.0	57.3	92.1	3.2	25.6				70	56.9	45.3	3.9	4.2	
			85/71	87.6	58.7	97.9	3.2	27.1				80	56.2	42.9	4.3	3.8	
60	9.0	1.5	75/63	71.2	53.6	83.0	3.8	18.9	40	9.0	1.8	60	59.9	49.6	3.6	4.8	
			80/67	76.1	55.0	88.1	3.8	19.9				70	58.4	46.4	4.0	4.3	
			85/71	81.0	56.6	93.3	3.9	20.9				80	56.1	42.7	4.3	3.8	
	13.0	3.0	75/63	73.0	54.2	84.2	3.6	20.5		13.0	3.6	60	62.8	51.7	3.7	5.0	
			80/67	78.1	55.8	89.4	3.6	21.7				70	61.0	48.5	4.0	4.5	
			85/71	83.3	57.4	94.8	3.6	22.9				80	60.5	47.4	4.4	4.0	
	17.5	5.0	75/63	73.9	54.6	84.7	3.5	21.4		17.5	5.8	60	64.2	53.2	3.7	5.1	
			80/67	79.0	56.5	90.0	3.5	22.7				70	62.5	51.1	4.1	4.5	
			85/71	84.4	57.9	95.5	3.5	24.0				80	61.8	48.4	4.4	4.1	
70	9.0	1.4	75/63	68.5	52.4	81.3	4.1	16.6	50	9.0	1.7	60	67.2	56.8	3.8	5.2	
			80/67	73.1	54.0	86.2	4.2	17.5				70	65.7	53.3	4.1	4.7	
			85/71	78.0	55.2	91.3	4.2	18.5				80	64.0	50.6	4.5	4.2	
	13.0	2.9	75/63	70.2	53.2	82.3	3.9	18.1		13.0	3.4	60	71.7	58.4	3.8	5.5	
			80/67	75.4	54.5	87.6	3.9	19.2				70	70.1	57.7	4.2	4.9	
			85/71	80.3	56.4	92.8	4.0	20.3				80	69.3	55.7	4.6	4.5	
	17.5	4.7	75/63	71.3	53.7	83.0	3.8	18.9		17.5	5.5	60	73.8	62.6	3.9	5.6	
			80/67	76.3	55.1	88.3	3.8	20.1				70	72.5	60.1	4.2	5.0	
			85/71	81.5	56.8	93.6	3.8	21.3				80	70.8	56.7	4.6	4.5	
80	9.0	1.3	75/63	65.6	51.2	79.6	4.5	14.6	60	9.0	1.6	60	75.2	62.4	3.9	5.6	
			80/67	70.3	52.7	84.5	4.6	15.4				70	74.2	61.1	4.3	5.1	
			85/71	75.1	54.1	89.5	4.6	16.3				80	72.8	59.0	4.6	4.6	
	13.0	2.7	75/63	67.5	52.0	80.7	4.3	15.9		13.0	3.2	60	80.7	69.2	4.0	5.9	
			80/67	72.2	53.6	85.6	4.3	16.8				70	79.0	65.6	4.3	5.3	
			85/71	77.1	55.3	90.8	4.3	17.9				80	77.8	63.3	4.7	4.8	
	17.5	4.5	75/63	68.4	52.3	81.3	4.1	16.5		17.5	5.2	60	83.7	71.8	4.1	6.0	
			80/67	73.2	54.0	86.2	4.2	17.6				70	82.1	68.7	4.4	5.5	
			85/71	78.3	55.3	91.5	4.2	18.7				80	80.3	65.4	4.8	4.9	
90	9.0	1.3	75/63	62.9	50.1	78.2	4.9	12.7	70	9.0	1.5	60	84.2	72.7	4.1	6.1	
			80/67	67.1	51.7	82.7	5.0	13.4				70	82.8	69.3	4.4	5.5	
			85/71	71.6	53.3	87.5	5.0	14.2				80	81.6	66.7	4.8	5.0	
	13.0	2.6	75/63	64.6	50.5	79.1	4.7	13.8		13.0	3.0	60	90.4	78.7	4.2	6.3	
			80/67	69.1	52.4	83.8	4.7	14.7				70	88.7	75.0	4.5	5.7	
			85/71	73.8	53.9	88.7	4.7	15.6				80	87.0	69.9	4.9	5.2	
	17.5	4.3	75/63	65.4	51.1	79.5	4.5	14.4		17.5	4.9	60	93.9	81.0	4.2	6.5	
			80/67	70.0	53.1	84.3	4.6	15.4				70	92.0	78.0	4.6	5.9	
			85/71	74.9	54.7	89.3	4.6	16.3				80	90.3	72.9	5.0	5.3	
100	9.0	1.2	75/63	60.2	48.7	76.9	5.4	11.1	80	9.0	1.4	60	93.4	80.6	4.2	6.5	
			80/67	64.1	50.5	81.2	5.5	11.7				70	91.6	78.0	4.6	5.8	
			85/71	68.4	51.8	85.7	5.5	12.3				80	91.8	75.9	5.0	5.4	
	13.0	2.4	75/63	61.6	49.6	77.5	5.1	12.0		13.0	2.9	60	100.4	87.9	4.4	6.7	
			80/67	66.2	50.7	82.3	5.2	12.8				70	98.3	84.5	4.7	6.1	
			85/71	70.5	52.9	86.9	5.2	13.5				80	98.1	81.9	5.2	5.6	
	17.5	4.1	75/63	62.7	49.5	78.1	5.0	12.6		17.5	4.7	60	104.6	91.9	4.5	6.9	
			80/67	67.1	51.3	82.7	5.0	13.3				70	102.2	87.8	4.8	6.2	
			85/71	71.8	53.0	87.6	5.1	14.2				80	99.8	84.7	5.2	5.6	
110	9.0	1.1	75/63	57.1	47.7	75.6	6.0	9.6	90	9.0	1.4	60	102.8	89.7	4.4	6.8	
			80/67	61.1	49.1	79.8	6.0	10.1				70	101.0	86.6	4.8	6.2	
			85/71	65.0	50.8	84.0	6.1	10.7				80	101.3	86.4	5.2	5.7	
	13.0	2.3	75/63	58.6	48.4	76.1	5.7	10.4		13.0	2.7	60	110.8	97.4	4.6	7.1	
			80/67	62.9	49.9	80.7	5.7	11.0				70	108.3	93.4	4.9	6.4	
			85/71	67.2	51.4	85.2	5.7	11.7				80	108.3	90.2	5.4	5.9	
	17.5	3.9	75/63	59.6	48.7	76.7	5.5	10.8		17.5	4.5	60	115.4	102.0	4.7	7.2	
			80/67	63.9	50.1	81.1	5.5	11.5				70	112.9	98.6	5.0	6.6	
			85/71	68.3	51.8	85.7	5.6	12.3				80	109.5	94.9	5.4	5.9	

Extended Range - Anti-freeze required

AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings.

Unit performance may be interpolated. Extrapolation is not allowed.

For conditions other than rating conditions provided, consult the BST selection software.

Ratings below 40°F are with a methanol solution.

DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.

Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

RP Model Series - Residential Water Source Heat Pumps



Capacity Data 070 (1775 CFM) Part Load																
Cooling									Heating							
Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp DB/WB (°F)	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER	Entering Fluid Temp (°F)	Water flow (GPM)	Pressure Drop (PSI)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP
50	9.0	1.6	75/63	57.9	44.3	64.6	2.2	26.2	30	9.0	1.9	60	38.1	30.6	2.6	4.3
			80/67	61.6	45.7	68.4	2.2	27.9				70	37.1	28.6	2.9	3.8
			85/71	65.7	46.9	72.6	2.2	29.7				80	36.2	26.6	3.2	3.3
	13.0	3.2	75/63	59.1	45.0	65.5	2.1	28.4		13.0	3.8	60	39.8	31.9	2.6	4.5
			80/67	63.1	46.4	69.6	2.1	30.5				70	38.5	30.1	2.9	3.9
			85/71	67.5	47.5	73.9	2.1	32.7				80	37.4	27.8	3.2	3.4
	17.5	5.2	75/63	59.8	45.3	66.0	2.0	29.6		17.5	6.1	60	40.5	33.0	2.6	4.6
			80/67	64.1	46.5	70.3	2.0	32.0				70	39.4	30.5	2.9	4.0
			85/71	68.5	47.7	74.7	2.0	34.5				80	38.1	28.6	3.2	3.5
60	9.0	1.5	75/63	55.3	43.6	62.8	2.5	22.5	40	9.0	1.8	60	43.7	36.2	2.6	4.9
			80/67	59.1	44.7	66.7	2.5	23.9				70	42.7	34.1	2.9	4.3
			85/71	62.9	46.0	70.6	2.5	25.4				80	41.5	32.0	3.2	3.8
	13.0	3.0	75/63	56.7	43.9	63.8	2.3	24.4		13.0	3.5	60	45.9	38.0	2.6	5.1
			80/67	60.5	45.3	67.7	2.3	26.1				70	44.7	35.8	2.9	4.5
			85/71	64.7	46.5	71.9	2.3	27.9				80	43.3	33.3	3.3	3.9
	17.5	5.0	75/63	57.3	44.3	64.3	2.3	25.5		17.5	5.8	60	47.1	39.0	2.6	5.2
			80/67	61.2	45.5	68.2	2.2	27.3				70	45.7	36.6	2.9	4.6
			85/71	65.5	46.9	72.4	2.2	29.3				80	44.3	34.1	3.3	4.0
70	9.0	1.4	75/63	53.0	42.2	61.3	2.8	19.3	50	9.0	1.7	60	50.0	42.2	2.7	5.5
			80/67	56.4	43.7	64.9	2.8	20.4				70	49.1	40.1	3.0	4.8
			85/71	60.1	45.1	68.7	2.8	21.6				80	47.6	37.6	3.3	4.2
	13.0	2.9	75/63	54.2	42.9	62.1	2.6	20.8		13.0	3.3	60	52.5	44.8	2.7	5.7
			80/67	57.9	44.1	65.8	2.6	22.2				70	51.4	42.4	3.0	5.0
			85/71	61.6	45.9	69.6	2.6	23.7				80	49.7	39.7	3.3	4.4
	17.5	4.7	75/63	54.8	43.1	62.5	2.5	21.7		17.5	5.4	60	53.8	46.3	2.7	5.8
			80/67	58.7	44.3	66.4	2.5	23.3				70	52.4	43.7	3.0	5.1
			85/71	62.6	45.9	70.3	2.5	24.9				80	51.0	40.8	3.3	4.5
80	9.0	1.3	75/63	50.3	41.3	59.6	3.1	16.3	60	9.0	1.6	60	56.5	48.7	2.7	6.1
			80/67	53.9	42.4	63.3	3.1	17.4				70	55.3	46.3	3.0	5.3
			85/71	57.4	43.8	66.9	3.1	18.4				80	53.9	43.9	3.4	4.7
	13.0	2.7	75/63	51.6	41.9	60.5	2.9	17.7		13.0	3.2	60	59.5	51.8	2.8	6.3
			80/67	55.2	43.2	64.1	2.9	18.9				70	58.1	49.3	3.1	5.6
			85/71	58.9	44.6	67.9	2.9	20.1				80	56.6	46.5	3.4	4.9
	17.5	4.5	75/63	52.3	42.0	60.9	2.8	18.5		17.5	5.2	60	61.2	53.7	2.8	6.5
			80/67	55.9	43.5	64.5	2.8	19.7				70	59.7	51.0	3.1	5.7
			85/71	59.7	44.7	68.4	2.8	21.1				80	58.2	48.0	3.4	5.0
90	9.0	1.3	75/63	47.8	40.3	58.2	3.5	13.8	70	9.0	1.5	60	63.4	55.6	2.8	6.7
			80/67	51.1	41.7	61.6	3.5	14.7				70	62.1	53.2	3.1	5.9
			85/71	54.6	43.1	65.2	3.5	15.7				80	60.6	50.5	3.4	5.2
	13.0	2.6	75/63	49.0	40.7	58.8	3.3	14.9		13.0	3.0	60	67.1	59.4	2.8	7.0
			80/67	52.4	42.0	62.4	3.3	16.0				70	65.4	56.4	3.1	6.2
			85/71	56.0	43.4	66.0	3.3	17.0				80	63.8	53.8	3.5	5.4
	17.5	4.3	75/63	49.6	40.9	59.2	3.2	15.5		17.5	4.9	60	69.2	61.6	2.8	7.2
			80/67	53.0	42.5	62.7	3.2	16.6				70	67.2	58.6	3.1	6.3
			85/71	56.9	43.5	66.6	3.2	17.8				80	65.7	55.7	3.5	5.5
100	9.0	1.2	75/63	45.1	39.2	56.7	3.9	11.6	80	9.0	1.4	60	70.7	62.9	2.8	7.3
			80/67	48.4	40.7	60.1	3.9	12.5				70	69.1	60.1	3.1	6.4
			85/71	51.8	42.1	63.6	3.9	13.3				80	67.7	57.5	3.5	5.7
	13.0	2.5	75/63	46.2	39.7	57.3	3.7	12.5		13.0	2.8	60	75.1	67.3	2.9	7.7
			80/67	49.6	41.2	60.7	3.7	13.5				70	73.1	64.2	3.2	6.7
			85/71	53.2	42.6	64.4	3.7	14.5				80	71.4	61.3	3.5	5.9
	17.5	4.1	75/63	46.8	39.9	57.6	3.6	13.0		17.5	4.6	60	77.5	69.8	2.9	7.9
			80/67	50.3	41.4	61.2	3.6	14.0				70	75.4	66.7	3.2	6.9
			85/71	53.9	42.9	64.8	3.6	15.1				80	73.6	63.6	3.6	6.1
110	9.0	1.1	75/63	42.6	38.1	55.5	4.3	9.8	90	9.0	1.3	60	77.5	69.6	2.9	7.9
			80/67	45.7	39.7	58.7	4.3	10.6				70	75.6	66.7	3.2	6.9
			85/71	49.0	41.3	62.2	4.3	11.3				80	74.1	64.0	3.6	6.1
	13.0	2.3	75/63	43.5	38.6	55.9	4.1	10.5		13.0	2.7	60	82.4	74.5	2.9	8.2
			80/67	46.9	40.2	59.3	4.1	11.4				70	80.2	71.3	3.3	7.2
			85/71	50.4	41.5	62.9	4.1	12.3				80	78.4	68.3	3.6	6.4
	17.5	3.9	75/63	44.2	38.7	56.3	4.0	10.9		17.5	4.4	60	85.2	77.4	3.0	8.4
			80/67	47.5	40.4	59.7	4.0	11.8				70	82.8	74.0	3.3	7.4
			85/71	51.0	41.8	63.2	4.0	12.7				80	80.7	70.1	3.6	6.5
Extended Range - Anti-freeze required AHRI/ISO13256-1 certified performance is rated at entering air conditions of 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating. Tabulated unit performance does not include fan or pump power corrections required for AHRI/ISO standard performance ratings. Unit performance may be interpolated. Extrapolation is not allowed. For conditions other than rating conditions provided, consult the BST selection software. Ratings below 40°F are with a methanol solution. DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.																

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RP Model Series - Residential Water Source Heat Pumps



024 - Temperature Pressure Operating Data

Enter Fluid Temp (°F)	Water Flow (GPM)	Cooling				Heating			
		Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Rise (°F)	Air Temp Drop (°F)	Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Drop (°F)	Air Temp Rise (°F)
30	3.0	Operation Not Recommended				60-70	241-261	8-9	15-19
	6.0					67-77	246-266	4-5	16-20
40	3.0	114-131	180-198	20-23	18-22	72-82	251-271	10-11	17-21
	6.0	113-130	153-171	9-12	19-23	80-90	257-277	5-6	19-23
50	3.0	116-133	209-227	19-22	18-22	85-95	262-282	11-12	20-24
	6.0	114-131	180-198	9-12	18-22	95-105	270-290	6-7	21-25
60	3.0	117-134	240-258	19-22	18-22	99-109	274-294	13-14	22-26
	6.0	116-133	210-228	9-12	18-22	112-122	285-305	7-8	24-28
70	3.0	119-136	274-292	19-22	18-22	115-125	287-307	15-16	25-29
	6.0	117-134	244-262	9-12	18-22	131-141	301-321	8-9	28-32
80	3.0	120-137	312-330	19-22	17-21	133-143	302-322	17-18	28-32
	6.0	119-136	281-299	9-12	18-22	152-162	319-339	9-10	31-35
90	3.0	122-139	354-372	18-21	17-21	152-162	318-338	19-20	31-35
	6.0	121-138	322-340	9-12	17-21	176-186	339-359	11-12	35-39
100	3.0	124-141	400-418	18-21	17-21	Operation Not Recommended			
	6.0	122-139	368-386	9-12	17-21				

036 - Temperature Pressure Operating Data

Enter Fluid Temp (°F)	Water Flow (GPM)	Cooling				Heating			
		Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Rise (°F)	Air Temp Drop (°F)	Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Drop (°F)	Air Temp Rise (°F)
30	4.5	Operation Not Recommended				58-68	259-279	9-10	18-22
	9.0					65-75	266-286	5-6	19-23
40	4.5	109-125	182-206	20-23	20-24	69-79	271-291	11-12	21-25
	9.0	108-124	157-181	10-13	20-24	78-88	279-299	6-7	22-26
50	4.5	111-127	210-234	20-23	19-23	82-92	284-304	12-13	23-27
	9.0	109-125	184-208	10-13	20-24	93-103	295-315	7-8	25-29
60	4.5	112-128	242-266	20-23	19-23	96-106	299-319	14-15	26-30
	9.0	111-127	215-239	9-12	19-23	110-120	313-333	8-9	29-33
70	4.5	114-130	277-301	19-22	19-23	112-122	316-336	16-17	29-33
	9.0	113-129	249-273	9-12	19-23	129-139	334-354	9-10	33-37
80	4.5	115-131	316-340	19-22	18-22	129-139	334-354	18-19	33-37
	9.0	114-130	288-312	9-12	19-23	150-160	356-376	10-11	37-41
90	4.5	117-133	358-382	19-22	18-22	148-158	355-375	21-22	36-40
	9.0	116-132	330-354	9-12	18-22	174-184	382-402	11-12	41-45
100	4.5	119-135	404-428	18-21	18-22	Operation Not Recommended			
	9.0	118-134	377-401	9-12	18-22				

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048 - Temperature Pressure Operating Data

Enter Fluid Temp (°F)	Water Flow (GPM)	Cooling				Heating			
		Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Rise (°F)	Air Temp Drop (°F)	Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Drop (°F)	Air Temp Rise (°F)
30	6.0	Operation Not Recommended				50-70	241-261	8-9	17-21
	12.0					57-77	247-267	4-5	18-22
40	6.0	108-124	175-195	20-23	20-24	61-81	251-271	10-11	19-23
	12.0	106-122	156-176	10-13	20-24	69-89	259-279	5-6	21-25
50	6.0	110-126	202-222	20-23	20-24	74-94	263-283	11-12	22-26
	12.0	108-124	179-199	9-12	20-24	84-104	273-293	6-7	24-28
60	6.0	111-127	232-252	19-22	19-23	88-108	277-297	13-14	25-29
	12.0	110-126	209-229	9-12	20-24	100-120	289-309	7-8	27-31
70	6.0	113-129	266-286	19-22	19-23	103-123	292-312	15-16	28-32
	12.0	112-128	242-262	9-12	19-23	119-139	306-326	8-9	31-35
80	6.0	115-131	304-324	19-22	19-23	121-141	308-328	17-18	31-35
	12.0	114-130	279-299	9-12	19-23	140-160	326-346	9-10	35-39
90	6.0	116-132	346-366	18-21	18-22	139-159	326-346	19-20	35-39
	12.0	115-131	321-341	9-12	18-22	163-183	348-368	11-12	39-43
100	6.0	118-134	391-411	18-21	18-22	Operation Not Recommended			
	12.0	117-133	366-386	9-12	18-22				

060 - Temperature Pressure Operating Data

Enter Fluid Temp (°F)	Water Flow (GPM)	Cooling				Heating			
		Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Rise (°F)	Air Temp Drop (°F)	Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Drop (°F)	Air Temp Rise (°F)
30	7.5	Operation Not Recommended				53-69	225-282	8-10	19-23
	15.0					60-76	231-289	5-6	20-25
40	7.5	104-129	170-209	19-25	21-25	64-82	234-296	10-11	22-26
	15.0	103-127	149-185	9-12	21-25	72-91	242-305	5-6	24-29
50	7.5	105-131	195-241	18-24	20-24	75-96	245-311	12-13	25-30
	15.0	104-129	172-215	9-12	20-25	86-108	255-323	6-7	26-32
60	7.5	106-133	223-276	18-24	19-24	89-112	257-328	13-15	27-33
	15.0	105-130	199-249	9-13	20-24	101-126	269-342	7-8	30-36
70	7.5	107-134	253-314	18-24	20-24	103-130	270-346	15-17	31-37
	15.0	106-132	229-286	9-13	20-24	119-147	286-364	9-10	34-41
80	7.5	108-136	288-356	18-24	19-23	119-148	286-366	17-20	34-41
	15.0	108-134	264-327	9-12	19-23	138-169	304-387	9-11	38-45
90	7.5	110-138	326-402	17-23	19-23	137-169	301-387	19-22	37-45
	15.0	109-136	302-372	9-12	19-23	160-194	325-412	11-13	42-50
100	7.5	111-140	368-451	17-22	18-22	Operation Not Recommended			
	15.0	111-138	344-421	9-12	18-22				

RP Model Series - Residential Water Source Heat Pumps



070 - Temperature Pressure Operating Data									
Enter Fluid Temp (°F)	Water Flow (GPM)	Cooling				Heating			
		Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Rise (°F)	Air Temp Drop (°F)	Suction Pressure (PSIG)	Discharge Pressure (PSIG)	Water Temp Drop (°F)	Air Temp Rise (°F)
30	9.0	Operation Not Recommended				53-69	230-287	8-10	21-25
	18.0					60-76	237-295	4-5	22-27
40	9.0	100-126	171-211	18-22	21-26	64-82	241-303	10-11	24-28
	18.0	99-124	150-188	8-13	21-26	71-90	249-312	5-6	25-30
50	9.0	101-128	194-242	18-22	20-25	75-96	253-319	11-12	27-32
	18.0	100-126	173-218	9-12	21-26	85-107	263-331	6-7	29-35
60	9.0	103-130	221-277	17-22	20-24	89-112	266-337	13-15	30-36
	18.0	101-128	199-251	8-13	21-25	100-125	279-352	7-8	33-39
70	9.0	104-132	252-314	17-22	20-25	103-130	281-357	14-16	33-39
	18.0	103-130	229-288	8-12	20-25	118-146	298-376	8-9	36-43
80	9.0	105-133	286-356	17-21	20-24	119-148	299-379	16-19	37-44
	18.0	104-132	263-329	8-11	19-24	138-169	319-402	9-11	41-48
90	9.0	107-136	324-402	17-21	19-23	137-169	317-403	18-21	41-49
	18.0	106-134	301-373	8-11	19-23	160-194	343-430	10-12	45-53
100	9.0	108-138	366-450	16-21	19-23	Operation Not Recommended			
	18.0	108-137	343-422	8-11	19-23				