

2012 Product Price List

Residential Bosch Geothermal Heat Pumps

Effective January, 2012



BOSCH

Invented for life



Products Nomenclature

Model Nomenclature Vertical, Horizontal, Counterflow, Splits and Water to Water Units

1 2 3 4 5 6 7 8 9 10 11 12 13 14
T A 0 2 5 - 1 V T C - F L T

SERIES:

- TA** - Two Stage Series (20°F - 110°F)
- TW** - Two Stage Water to Water (20°F - 110°F)
- CE** - Two Stage Series (20°F - 110°F)
- CP** - Single Stage Series (20°F - 110°F)
- BP** - Single Stage Series (20°F - 110°F)

SUPPLY AIR LOCATION:

- T** - Top ("VT" Cabinet Only)
- S** - Straight Thru ("HZ" Cabinet only)
- E** - End ("HZ" Cabinet only)
- B** - Bottom ("CF/AC" Cabinet only)

NOMINAL CAPACITY:

Thousands of BTUH

RETURN AIR LOCATION:

- L** - Left
- R** - Right

ELECTRICAL CONFIGURATIONS:

1 - 208-230/1/60

WATER CONNECTION LOCATION:

- F** - Front

CABINET CONFIGURATIONS:

- VT** - Vertical
- HZ** - Horizontal
- CF** - Counterflow (available only on TA and CE Series)
- CS** - Condensing Section
- CS** - Water to Water Unit no Unit Controller
- US** - Water to Water Unit Unit Mounted Controller
- AH** - Horizontal Air Handler
- AV** - Vertical Air Handler
- AC** - Counterflow Air Handler

WATER COIL OPTIONS:

- C** - Copper
- N** - Cupro-Nickel*

*Note: Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

TA SERIES



*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60

Price includes: complete unit with the following features

- ▶ R-410a refrigerant
- ▶ Schrader access ports
- ▶ Condensate overflow switch
- ▶ Fully insulated for geothermal applications
- ▶ Comfort alert diagnostic module
- ▶ Black vinyl cabinet with silver brushed aluminum front panels
- ▶ Floating compressor base pan and compressor blanket
- ▶ Deluxe 2" return air filter rack with MERV-11 filters
- ▶ Horizontal packaged units include hanging brackets
- ▶ Copeland Ultratech™ two stage unloading compressor
- ▶ ECM blower motors
- ▶ 75VA transformer

Model Description	Model/ Part Number	List Price	Energy Star	Package Ship Weight (lb)	ADD for CuNi*
TA Series Two-Stage, Packaged Heat Pumps					
Vertical or Horizontal 2 ton, Two-stage	TA025-1	\$10,242	✓	315	\$371
Vertical or Horizontal 3 ton, Two-stage	TA035-1	\$10,726	✓	315	\$424
Vertical or Horizontal 4 ton, Two-stage	TA049-1	\$12,306	✓	348	\$796
Vertical or Horizontal 5 ton, Two-stage	TA061-1	\$14,230	✓	415	\$796
Vertical or Horizontal 6 ton, Two-stage	TA071-1	\$15,358	✓	495	\$796
TA Series Two-Stage, Split Heat Pumps, Condensing Section					
2 ton, Two-stage	TA025-1	\$6,240	✓	NA	\$371
2 ton, Two-stage (Galvalume+)	073-001	\$6,240	✓	NA	\$371
3 ton, Two-stage	TA035-1	\$6,864	✓	NA	\$424
3 ton, Two-stage (Galvalume+)	073-002	\$6,864	✓	NA	\$424
4 ton, Two-stage	TA049-1	\$7,753	✓	NA	\$796
4 ton, Two-stage (Galvalume+)	073-003	\$7,753	✓	NA	\$796
5 ton, Two-stage	TA061-1	\$8,681	✓	NA	\$796
5 ton, Two-stage (Galvalume+)	073-004	\$8,681	✓	NA	\$796
6 ton, Two-stage	TA071-1	\$9,368	✓	NA	\$796
6 ton, Two-stage (Galvalume+)	073-005	\$9,368	✓	NA	\$796
TA Series Two-Stage, Split Heat Pumps, Air Handler					
Vertical or Horizontal 2 ton, Two-stage	TA025-1	\$4,608	✓	NA	NA
Vertical or Horizontal 3 ton, Two-stage	TA035-1	\$4,827	✓	NA	NA
Vertical or Horizontal 4 ton, Two-stage	TA049-1	\$4,922	✓	NA	NA
Vertical or Horizontal 5 ton, Two-stage	TA061-1	\$5,834	✓	NA	NA
Vertical or Horizontal 6 ton, Two-stage	TA071-1	\$6,296	✓	NA	NA
TA Series Two-Stage, Packaged Counterflow Heat Pumps					
2 ton, Two-stage	TA025-1	\$10,754	✓	315	\$371
3 ton, Two-stage	TA035-1	\$11,261	✓	315	\$424
4 ton, Two-stage	TA049-1	\$12,922	✓	348	\$796
5 ton, Two-stage	TA061-1	\$14,943	✓	415	\$796
6 ton, Two-stage	TA071-1	\$16,125	✓	495	\$796

TW SERIES

*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60



Price includes: complete unit with the following features

- ▶ Refrigerant R-410a
- ▶ Copeland Ultratech® two stage compressor
- ▶ Floating base pan and compressor blanket
- ▶ Black vinyl cabinet with silver brushed aluminum front panels
- ▶ Comfort alert diagnostic module
- ▶ Schrader access ports, high & low pressure switch, and lockout circuit
- ▶ UPM unit protection module standard in -CSC, -CSN models
- ▶ Unit mounted controller standard on -USC, -USN models
- ▶ Single point electrical connections
- ▶ 75VA transformer

Model Description	Model/ Part Number	-CSC	-CSN	-USC	-USN	Energy Star	Package Ship Weight (lb)
TW Series Two-Stage, Water to Water Heat Pumps							
Water to Water 2 ton, Two-stage	TW025-1	\$7,765	\$8,386	\$8,464	\$9,055	✓	270
Water to Water 3 ton, Two-stage	TW035-1	\$7,952	\$9,066	\$8,588	\$9,704	✓	270
Water to Water 4 ton, Two-stage	TW049-1	\$8,926	\$9,729	\$9,551	\$10,315	✓	320
Water to Water 5 ton, Two-stage	TW061-1	\$10,920	\$12,012	\$11,466	\$12,498	✓	330
Water to Water 6 ton, Two-stage	TW071-1	\$13,416	\$15,563	\$14,087	\$16,200	✓	450
Water to Water 10 ton, Two-stage	TW122-1	\$21,667	\$23,618	\$21,992	\$23,943	✓	740

Model Nomenclature	Freeze Stat on CSX*	Thermo disk on -USX*
-CSC Cu coil no controller	List price	List price
-CSN CuNi coil no controller	881-024 \$140	641-073 \$118
-USC Cu coil unit mounted controller	On both load and source side	On source side
-USN CuNi coil unit mounted controller		

* Dual compressor units require 2 each of these items. You must use a quantity of 2 when you price them

CP SERIES

*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60



Price includes: complete unit with the following features

- ▶ R-410a refrigerant
- ▶ Schrader access ports
- ▶ Condensate overflow switch
- ▶ Fully insulated for geothermal applications
- ▶ UPM (Unit Protection Module)
- ▶ Galvalume cabinet with silver brushed aluminum front panels
- ▶ Duct flange connections for the supply and return
- ▶ Four sided 2"/1" filter rack with MERV-11 filters
- ▶ Floating compressor base pan and compressor blanket
- ▶ Lockout circuit & 75VA transformer
- ▶ Horizontal packaged units include hanging brackets
- ▶ ECM blower motors

Model Description	Model/ Part Number	List Price	Energy Star	Package Ship Weight (lb)	ADD for CuNi*
CP Series Single-Stage, Packaged Heat Pumps					
Vertical or Horizontal 2 ton, Single-stage	CP024-1	\$8,766	✓	228	\$385
Vertical or Horizontal 2 1/2 ton, Single-stage	CP030-1	\$9,456	✓	245	\$385
Vertical or Horizontal 3 ton, Single-stage	CP036-1	\$9,810	✓	273	\$385
Vertical or Horizontal 3 1/2 ton, Single-stage	CP042-1	\$10,470	✓	295	\$515
Vertical or Horizontal 4 ton, Single-stage	CP048-1	\$10,730	✓	350	\$515
Vertical or Horizontal 5 ton, Single-stage	CP060-1	\$11,786	✓	435	\$593
Vertical or Horizontal 6 ton, Single-stage	CP070-1	\$12,480	✓	565	\$593

CE SERIES



*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60

Price includes: complete unit with the following features

- ▶ R-410a refrigerant
- ▶ Schrader access ports
- ▶ Condensate overflow switch
- ▶ Fully insulated for geothermal applications
- ▶ UPM (Unit Protection Module)
- ▶ Galvalume cabinet with silver brushed aluminum front panels
- ▶ Duct flange connections for the supply
- ▶ Floating compressor base pan and compressor blanket
- ▶ Deluxe 2" return air filter rack with MERV-11 filters
- ▶ Horizontal packaged units include hanging brackets
- ▶ Copeland Ultratech™ two stage unloading compressor
- ▶ ECM blower motors
- ▶ 75VA transformer

Model Description	Model/ Part Number	List Price	Energy Star	Package Ship Weight (lb)	ADD for CuNi*
CE Series Two-Stage, Packaged Heat Pumps					
Vertical or Horizontal 2 ton, Two-stage	CE025-1	\$8,798	✓	315	\$424
Vertical or Horizontal 3 ton, Two-stage	CE035-1	\$9,911	✓	315	\$424
Vertical or Horizontal 4 ton, Two-stage	CE049-1	\$11,232	✓	348	\$690
Vertical or Horizontal 5 ton, Two-stage	CE061-1	\$12,376	✓	415	\$743
Vertical or Horizontal 6 ton, Two-stage	CE071-1	\$13,104	✓	495	\$902
CE Series Two-Stage, Split Heat Pumps, Condensing Section					
2 ton, Two-stage Condensing Section	CE025-1	\$5,193	✓	NA	\$424
3 ton, Two-stage Condensing Section	CE035-1	\$5,214	✓	NA	\$424
4 ton, Two-stage Condensing Section	CE049-1	\$6,646	✓	NA	\$690
5 ton, Two-stage Condensing Section	CE061-1	\$7,790	✓	NA	\$743
6 ton, Two-stage Condensing Section	CE071-1	\$8,387	✓	NA	\$902
CE Series Two-Stage, Split Heat Pumps, Air Handler					
2 ton, Two-stage Two-stage Air Handler	CE025-1	\$4,074	✓	NA	NA
3 ton, Two-stage Two-stage Air Handler	CE035-1	\$4,633	✓	NA	NA
4 ton, Two-stage Two-stage Air Handler	CE049-1	\$4,827	✓	NA	NA
5 ton, Two-stage Two-stage Air Handler	CE061-1	\$4,942	✓	NA	NA
6 ton, Two-stage Two-stage Air Handler	CE071-1	\$5,242	✓	NA	NA
CE Series Two-Stage, Packaged Counterflow Heat Pumps					
2 ton, Two-stage	CE025-1	\$8,708	✓	315	\$424
3 ton, Two-stage	CE035-1	\$9,623	✓	315	\$424
4 ton, Two-stage	CE049-1	\$11,343	✓	348	\$690
5 ton, Two-stage	CE061-1	\$12,995	✓	415	\$743
6 ton, Two-stage	CE071-1	\$13,759	✓	495	\$902

BP SERIES

*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60

**Extended Range option includes wrapped condenser



Price includes: complete unit with the following features

- ▶ R-410a refrigerant
- ▶ Schrader access ports
- ▶ Condensate overflow switch
- ▶ UPM (Unit Protection Module)
- ▶ Galvalume cabinet and front panels
- ▶ Duct flange connections for the supply and return
- ▶ Four sided 2"/1" filter rack with 1" filter
- ▶ Lockout circuit & 75VA transformer
- ▶ Horizontal packaged units include hanging brackets
- ▶ ECM blower motors (BP015 - 070)
- ▶ PSC blower motors (BP007 - 012)
- ▶ Floating compressor base pan

Model Description	Model/ Part Number	List Price	Energy Star	Package Ship Weight (lb)	ADD for CuNi*	Extended Range Package Units**	
BP Series Single-Stage, Packaged Heat Pumps						Part Number	Option Price
Vertical or Horizontal 1/2 ton, Single-stage	BP007-1	\$4,984	✓	127	\$156	8733900471	\$57
Vertical or Horizontal 3/4 ton, Single-stage	BP009-1	\$5,019	✓	129	\$156	8733900471	\$57
Vertical or Horizontal 1 ton, Single-stage	BP012-1	\$5,358	✓	140	\$208	8733900471	\$57
Vertical or Horizontal 1 1/4 ton, Single-stage	BP015-1	\$5,843	✓	170	\$208	8733900471	\$57
Vertical or Horizontal 1 1/2 ton, Single-stage	BP018-1	\$6,586	✓	220	\$208	8733900471	\$57
Vertical or Horizontal 2 ton, Single-stage	BP024-1	\$7,592	✓	228	\$385	8733900472	\$81
Vertical or Horizontal 2 1/2 ton, Single-stage	BP030-1	\$7,974	✓	245	\$385	8733900473	\$81
Vertical or Horizontal 3 ton, Single-stage	BP036-1	\$8,390	✓	273	\$385	8733900473	\$81
Vertical or Horizontal 3 1/2 ton, Single-stage	BP042-1	\$8,840	✓	295	\$515	8733900474	\$81
Vertical or Horizontal 4 ton, Single-stage	BP048-1	\$10,018	✓	350	\$515	8733900474	\$81
Vertical or Horizontal 5 ton, Single-stage	BP060-1	\$11,440	✓	435	\$593	8733900475	\$105
Vertical or Horizontal 6 ton, Single-stage	BP070-1	\$12,134	✓	565	\$593	8733900476	\$105

DX SERIES

All our models come without the Filter base.
Please consult the Accessories table for choosing the Filter Base Kit.

Electrical characteristics:
-1 is 208-230/1/60



Unitary Air Handler

Price includes: complete unit with the following features

- ▶ Energy Star Tier 3 compliant when paired with Bosch Condensing Sections (TA and CE Series)
- ▶ ECM 2.3 Constant CFM Motor
- ▶ 4-way multiposition, accessory kit required for downflow applications
- ▶ 1" cabinet insulation
- ▶ R410a bi-directional TXV with 15% bleed
- ▶ Powder coated doors and top panel
- ▶ Electrical connections on top or sides
- ▶ Plenum collar on supply outlet
- ▶ High temperature, UV approved plastic drain pans

Model Description	Model/ Part Number	List Price	Package Ship Weight(lb)	Cabinet Dimensions (Inches)		
				Height	Width	Depth
DX series, Unitary Air Handler						
Vertical or Horizontal 2 ton	7738002700	\$3,729	120	43.00	17.50	21.00
Vertical or Horizontal 3 ton	7738002701	\$ 3,782	145	48.00	21.00	21.00
Vertical or Horizontal 4 ton	7738002702	\$ 4,061	202	58.75	24.50	21.75
Vertical or Horizontal 5 ton	7738002703	\$ 4,200	212	58.75	24.50	21.75
Vertical or Horizontal 6 ton	7738002704	\$ 5,113	217	58.75	24.50	21.75
DX series, Unitary Air Handler with Electric Heater (EH)						
Vertical and Horizontal 2 ton, with 5 kW EH	7738002705	\$ 3,897	124	43.00	17.50	21.00
Vertical and Horizontal 3 ton, with 5 kW EH	7738002706	\$ 4,004	149	48.00	21.00	21.00
Vertical and Horizontal 3 ton, with 10 kW EH	7738002707	\$ 4,025	150	48.00	21.00	21.00
Vertical and Horizontal 4 ton, with 10 kW EH	7738002708	\$ 4,301	207	58.75	24.50	21.75
Vertical and Horizontal 4 ton, with 15 kW EH	7738002709	\$ 4,503	208	58.75	24.50	21.75
Vertical and Horizontal 5 ton, with 10 kW EH	7738002710	\$ 4,445	217	58.75	24.50	21.75
Vertical and Horizontal 5 ton, with 15 kW EH	7738002711	\$ 4,593	218	58.75	24.50	21.75
Vertical and Horizontal 5 ton, with 20 kW EH	7738002712	\$ 4,634	220	58.75	24.50	21.75
Vertical and Horizontal 6 ton, with 10 kW EH	7738002713	\$ 5,363	227	58.75	24.50	21.75
Vertical and Horizontal 6 ton, with 15 kW EH	7738002714	\$ 5,517	228	58.75	24.50	21.75
Vertical and Horizontal 6 ton, with 20 kW EH	7738002715	\$ 5,554	230	58.75	24.50	21.75
DX series, Cased „A“ Coil						
Vertical 2 ton	7738002732	\$ 1,338	36	16.00	14.00	21.00
Vertical 3 ton	7738002733	\$ 1,436	50	24.00	17.50	21.00
Vertical 4 ton	7738002734	\$ 2,139	57	24.00	21.00	21.75
Vertical 5 ton	7738002735	\$ 2,613	62	26.00	24.50	21.75
Vertical 6 ton	7738002736	\$ 2,786	70	32.00	24.50	21.75
DX series, Uncased „A“ Coil						
Vertical 2 ton	7738002737	\$1,172	25	12.00	13.13	19.00
Vertical 3 ton	7738002738	\$1,248	37	20.00	16.63	19.00
Vertical 4 ton	7738002739	\$1,804	41	20.00	19.63	20.50
Vertical 5 ton	7738002740	\$2,252	45	24.00	23.63	20.50
Vertical 6 ton	7738002741	\$2,403	51	26.00	23.63	20.50

HYDRONIC

SERIES

All our models come without the Filter base. Please consult the Accessories table for choosing the Filter Base Kit.



Unitary Air Handler

Price includes: complete unit with the following features

- ▶ ECM 2.3 Constant CFM Motor
- ▶ 4-way multiposition, accessory kit required for downflow applications
- ▶ 1" cabinet insulation
- ▶ Powder coated doors and top panel
- ▶ Hydronic connections on top
- ▶ Electrical connections on top or sides
- ▶ Plenum collar on supply outlet
- ▶ High temperature, UV approved plastic drain pans

Electrical characteristics:
-1 is 208-230/1/60

Model Description	Model/ Part Number	List Price	Package Ship Weight (lb)	Cabinet Dimensions (Inches)		
				Height	Width	Depth
HY series, Unitary Air Handler						
Vertical and Horizontal 2 ton	7738002716	\$3,542	130	43.00	17.50	21.00
Vertical and Horizontal 3 ton	7738002717	\$3,593	145	48.00	21.00	21.00
Vertical and Horizontal 4 ton	7738002718	\$3,858	215	58.75	24.50	21.75
Vertical and Horizontal 5 ton	7738002719	\$3,990	215	58.75	24.50	21.75
Vertical and Horizontal 6 ton	7738002720	\$4,857	218	58.75	24.50	21.75
HY series, Unitary Air Handler with Electric Heat (EH)						
Vertical and Horizontal 2 ton, with 5 kW EH	7738002721	\$3,557	134	43.00	17.50	21.00
Vertical and Horizontal 3 ton, with 5 kW EH	7738002722	\$3,875	149	48.00	21.00	21.00
Vertical and Horizontal 3 ton, with 10 kW EH	7738002723	\$3,894	150	48.00	21.00	21.00
Vertical and Horizontal 4 ton, with 10 kW EH	7738002724	\$4,125	220	58.75	24.50	21.75
Vertical and Horizontal 4 ton, with 15 kW EH	7738002725	\$4,290	221	58.75	24.50	21.75
Vertical and Horizontal 5 ton, with 10 kW EH	7738002726	\$4,236	220	58.75	24.50	21.75
Vertical and Horizontal 5 ton, with 15 kW EH	7738002727	\$4,390	221	58.75	24.50	21.75
Vertical and Horizontal 5 ton, with 20 kW EH	7738002728	\$4,426	224	58.75	24.50	21.75
Vertical and Horizontal 6 ton, with 10 kW EH	7738002729	\$5,113	223	58.75	24.50	21.75
Vertical and Horizontal 6 ton, with 15 kW EH	7738002730	\$5,282	224	58.75	24.50	21.75
Vertical and Horizontal 6 ton, with 20 kW EH	7738002731	\$5,325	227	58.75	24.50	21.75

Unitary Handler Accessories for DX & Hydronic Series

Model Description	Model/Part Number	List Price
Downflow Kit for DX models		
Vertical and Horizontal 2 ton	7738002777	\$246
Vertical and Horizontal 3 ton	7738002778	\$404
Vertical and Horizontal 4 ton	7738002779	\$549
Vertical and Horizontal 5 ton	7738002780	\$656
Vertical and Horizontal 6 ton	7738002781	\$713
Downflow Kit for HY models		
Vertical and Horizontal 2 ton	7738002782	\$309
Vertical and Horizontal 3 ton	7738002783	\$410
Vertical and Horizontal 4 ton	7738002784	\$769
Vertical and Horizontal 5 ton	7738002785	\$769
Vertical and Horizontal 6 ton	7738002786	\$769
Filter Base Kits 1" TA Filter, accepts 2"		
Vertical and Horizontal 2 ton	7738002787	\$202
Vertical and Horizontal 3 ton	7738002788	\$218
Vertical and Horizontal 4, 5 and 6 ton	7738002789	\$228
Field Installed Electric Heat Kits (All breakers) for DX and Hydronic series		
For 2 ton units, 5 kW	7738002790	\$334
For 3 ton units, 5 kW	7738002791	\$347
For 3 ton units, 10 kW	7738002792	\$385
For 4 ton units, 10 kW	7738002793	\$448
For 4 ton units, 15 kW	7738002794	\$713
For 5 ton units, 10 kW	7738002795	\$448
For 5 ton units, 15 kW	7738002796	\$713
For 5 ton units, 20 kW	7738002797	\$801
For 6 ton units, 10 kW	7738002798	\$448
For 6 ton units, 15 kW	7738002799	\$713
For 6 ton units, 20 kW	7738002800	\$801
Hydronic Controller		
Hydronic Auto Changeover*	7738000397	\$22

* In order to allow your room thermostat or DDC controller to control the operation mode (cooling or heating) that your water-to-water unit is running, you will need to purchase this accessory. Please read our Instructions and Operation Manual. Please consult our technical literature for installing the Downflow Kit.

Desuperheater

Note:

- 1) Consult factory for location of where the heat recovery package is mounted on the unit.
- 2) FHP Manufacturing reserves the right to change the mounting location without notice.
- 3) All dual compressor units have HR kits installed on first stage only.

Price includes the heat recovery package with following features:

- ▶ UL approved option
- ▶ Copper double wall vented heat exchanger
- ▶ Hot water circulation pump
- ▶ Prices are list adds for each individual unit in addition to unit price
- ▶ On/Off/overload protection
- ▶ Hot water temperature (140 °F) limit switch
- ▶ HR kit & coil cabinet width 3.5"
- ▶ Air purge valve
- ▶ Available on (-1) voltage models only

Model Description	Model/Part Number	List Price
For use with listed models		
BP/CP024 thru BP/CP036 VERTICAL models	8733900429	\$728
BP/CP024 thru BP/CP036 HORIZONTAL models	8733900427	\$728
BP/CP042 thru BP/CP070 VERTICAL models	8733900430	\$751
BP/CP042 thru BP/CP070 HORIZONTAL models	8733900428	\$751
CE025 thru CE035	399-009	\$728
TA025 thru TA035	399-009	\$728
CE049 thru CE071	399-010	\$751
TA049 thru TA071	399-010	\$751
TW025 thru TW035	399-009	\$728
TW049 thru TW071	399-010	\$751
TW122 - CS	8733902434	\$759
TW122 - US	8733902435	\$759

Hot Gas Reheat

Price includes the hot gas reheat with following features:

- ▶ UL approved option
- ▶ Prices are list adds for each individual unit in addition to unit price
- ▶ Available only in left or right hand configurations and only in VT & HZ cabinets on ½ - 6 Ton models
- ▶ Not available on 3, 4 & 5 ton models with belt drive options, and may not be compatible with certain configurations
- ▶ All models with this option will lose approximately 5% capacity and efficiency
- ▶ Not available on split models
- ▶ Not available with electric heat

Hot Gas Reheat option:
As listed below available as
factory installed option only.

Model Description	Option Part Number	Configuration	List Price
CE025 thru 035	590-059	HZ	\$2,408
CE025 thru 035	590-006	VT	\$2,408
CE049 thru 061	590-061	HZ	\$2,131
CE049 thru 061	590-007	VT	\$2,131
CE071	590-164	HZ	\$2,610
CE071	590-178	VT	\$2,610
BP/CP007	590-257	VT,HZ	\$1,321
BP/CP009	590-656	VT,HZ	\$1,321
BP/CP012	590-259	VT,HZ	\$1,321
BP/CP015 thru 018	8733900447	HZ	\$1,096
BP/CP015 thru 018	8733900449	VT	\$1,096
BP/CP024	8733900451	HZ	\$1,096
BP/CP024	8733900453	VT	\$1,096
BP/CP030 thru 036	8733900455	HZ	\$1,428
BP/CP030 thru 036	8733900457	VT	\$1,428
BP/CP042 thru 048	8733900459	HZ	\$2,028
BP/CP042 thru 048	8733900461	VT	\$2,028
BP/CP060	8733900463	HZ	\$2,133
BP/CP060	8733900465	VT	\$2,133
BP/CP070	8733900467	HZ	\$2,133
BP/CP070	8733900469	VT	\$2,133

Electric Heaters

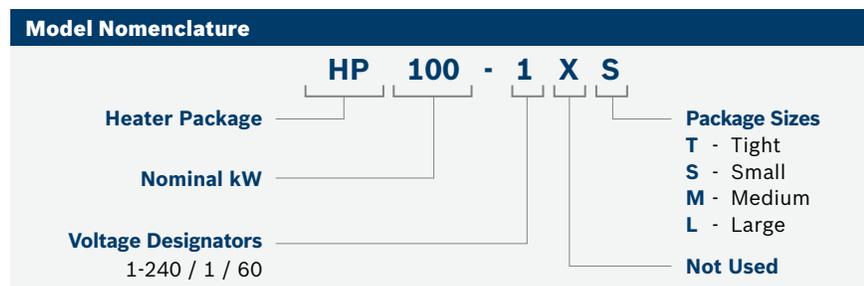
If there is no "X" under the model number then that heater size is not available on that unit model.

Price includes internal electric heat package with following features:

- ▶ Internal factory installed UL package with primary thermal overload protection
- ▶ Magnetic contactors, branch circuit protection (15 kW & 20 kW), electrical characteristics 240/1/690
- ▶ Prices are list adds for each individual unit in addition to unit price
- ▶ Heaters are single phase

CE Models							Heater Model	Nominal kW	Stages*	List Price
024	025-030	035-036	042	048-049	060-061	070-071				
TA Models										
NA	025	035	-	049	061	071				
X	X	X	X				HP050-1XS	4.8	1	\$319
				X	X	X	HP050-1XM	4.8	1	\$319
X	X	X	X				HP075-1XS	7.2	2	\$367
				X	X	X	HP075-1XM	7.2	2	\$367
X	X	X	X				HP100-1XS	9.6	2	\$405
				X	X	X	HP100-1XM	9.6	2	\$405
			X	X	X	X	HP150-1XM	14.4	2	\$617
				X	X	X	HP200-1XM	19.2	2	\$771

* All heaters are wired for single point power connection



Heater availability:

Only available in "TA & CE" series with the following configurations:

- Vertical (VT) units: FLT, FRT
- Counterflow (CF) units: FLB, FRB
- Horizontal (HZ) units: FLE, FRE, FLS, FRS

(kW > 10 not available on -fxs)

Not available with hot gas reheat option.

Duct Mounted Electric Heaters for Field Installation

- ▶ Only available for BP and CP series
- ▶ Only available in single phase 208/240 V
- ▶ Please refer to Manufacturer's Installation and Operation for proper installation and guidelines
- ▶ It is recommended to use a seven (7) conductor cable for thermostat interface
- ▶ It is required for the duct mounted heater to have an independent power supply
- ▶ In fiber glass duct systems, a metal sleeve MUST be used to insert and support the heater

Description	Nominal Dimension (in)	Part/Model Number	List Price
DUCT HEATER 5kW	14 x 14	7738000004	\$442
DUCT HEATER 5kW	14 x 16	7738000005	\$442
DUCT HEATER 5kW	16 x 16	7738000007	\$454
DUCT HEATER 5kW	18 x 18	7738000009	\$560
DUCT HEATER 10kW	14 x 16	7738000006	\$574
DUCT HEATER 10kW	16 x 16	7738000008	\$592
DUCT HEATER 10kW	18 x 18	7738000010	\$699
DUCT HEATER 15kW	18 x 18	7738000011	\$1,154
DUCT HEATER 20kW	18 x 18	7738000012	\$1,433

Model	Nominal BTUH	5kW	10kW	15kW	20kW	Nominal CFM	Duct Flange Connection (in)
BP	18000	7738000004	-	-	-	600	13.75x13.75
BP/CP	24000	7738000005	7738000006	-	-	800	13.75x15.75
BP/CP	30000	7738000007	7738000008	-	-	1000	15.75x15.75
BP/CP	36000	7738000007	7738000008	-	-	1200	15.75x15.75
BP/CP	42000	7738000009	7738000010	7738000011	-	1400	17.75x17.75
BP/CP	48000	7738000009	7738000010	7738000011	-	1600	17.75x17.75
BP/CP	60000	7738000009	7738000010	7738000011	7738000012	2000	17.75x17.75
BP/CP	70000	7738000009	7738000010	7738000011	7738000012	2200	17.75x17.75

Options & Accessories

- ▶ Prices are list adds for each control circuit and are in addition to unit price
- ▶ Available only on the models as listed below
- ▶ Consult factory when using multiple options. Some options may not be compatible with certain other options

Description	Part Number	List Price
Reset at disconnect switch only wiring	979-030	\$46
Differential pressure switch	8733900488	\$527
Thermodisc freeze switch	641-073	\$118
Aux relay - pump interlock relay (contact closure as compressor cycles)	660-010	\$81
EMS relay - specify coil voltage (breaks hot leg of transformer n/o contact)	660-003	\$81
Comfort alert diagnostic module (only available for CE & CP series)	641-180	\$144
Compressor monitor relay (dry contact closure with compressor contactor)	660-004	\$81

Prices are for each control circuit and is in addition to unit price and other installed options. Consult factory for description of above control options or see wiring diagrams.

Description	Part Number	List Price
Freeze stat (set at 35 deg f) - 1 compressor	881-022	\$46
Freeze stat (set at 35 deg f) - 2 compressor	881-023	\$62
*Factory mounted non-fused disconnect switch 40a for BP, CP and CE series (only up to size 070, single compressor)	660-039	\$313
*Factory mounted non-fused disconnect switch 40a for TA and TW series (only up to size 070, single compressor)	660-071	\$313

* Not for use with electric heaters.

Spare Filters

Model Description	Filter Size (in.) & (Qty)	Part Number	List Price (ea.)
BP Series, Standard throw-away Replacement Filters, Vertical/Counterflow Models			
BP007, 009	20X15X1	570-069	\$12
BP012	18X20X1	570-054	\$12
BP015, 018	20X20X1	570-003	\$12
BP024	24X24X1	570-008	\$12
BP030, 036	24X30X1	570-009	\$12
BP042, 048	16X30X1 (2)	570-053	\$16
BP060, 070	28X30X1 (2)	570-042	\$16
CE Series, Standard throw-away Replacement Filters, Vertical/Counterflow Models			
CE025, 035	24 x 24 x 2	275-008	\$49
CE049, 061	24 x 30 x 2	575-009	\$55
CE071	16 x 30 x 2 (2)	575-053	\$36
TA Series, Standard throw-away Replacement Filters, Vertical/Counterflow Models			
TA025	24 x 24 x 2	575-008	\$49
TA035	24 x 30 x 2	575-009	\$55
TA049	16 x 30 x 2 (2)	575-053	\$36
TA061, 071	20 x 30x 2 (2)	575-004	\$49
CP Series, Standard throw-away Replacement Filters, Vertical/Counterflow Models			
CP024	24 x 24 x 2	575-008	\$49
CP030, 036	24 x 30 x 2	575-009	\$55
CP042, 048	16 x 30 x 2 (2)	575-053	\$36
CP060, 070	20 x 30x 2 (2)	575-004	\$49

Model Description	Filter Size (in.) & (Qty)	Part Number	List Price (ea.)
BP Series, Standard throw-away Replacement Filters, Horizontal Models			
BP007, 009	20X15X1	570-069	\$12
BP012, 018	18X20X1	570-054	\$12
BP024	20 X 30 X 1 (1)	570-042	\$12
BP030, 036	18X20X1 (2)	570-054	\$12
BP042, 048	20X24X1 (2)	570-041	\$16
BP060, 070	20X28X1 (2)	570-068	\$16
CE Series, Standard throw-away Replacement Filters, Horizontal Models			
CE025, 035	20 x 30 x 2	575-004	\$28
CE049, 061	20 x 34.5 x 2	572-045	\$28
CE071	20 x 24 x 2 (2)	575-010	\$26
TA Series, Standard throw-away Replacement Filters, Horizontal Models			
TA025	20 x 30 x 2	575-004	\$49
TA035, 049	18 x 20 x 2 (2)	575-007	\$31
TA061, 071	20 x 28 x 2 (2)	575-005	\$47
CP Series, Standard throw-away Replacement Filters, Horizontal Models			
CP024	20 x 30 x 2 (2)	575-004	\$28
CP030, 036	18 x 20 x 2 (2)	575-007	\$31
CP042, 048	20 x 24 x 2 (2)	575-010	\$26
CP060, 070	20 x 28x 2 (2)	575-005	\$47

Note: All units listed above with a (2) beside them require a quantity of 2 filters respectively.

TA, CP AND CE Series Filters are 2 inch MERV-11

Spare filters are sold by box of 12 filters. Pricing shown above is per (ea.) filter price

Thermostats

- ▶ See submittal sheets for thermostat specifications at www.bosch-climate.us
- ▶ Availability subject to minimum order quantity on all thermostats

Description	Part Number	List Price
ICM simplecomfort SC2010 electronic 1 stage cool - 1 stage heat MCO operation led fault indication LCD display	8733800269	\$121
ICM simplecomfort SC2211L electronic 2 stage cool - 2 stage heat MCO operation LED fault indication LCD display	8733800272	\$150
ICM simplecomfort SC4011 electronic 1 stage cool - 1 stage heat MCO/ACO operation LED fault indication LCD display. Non programmable	8733800271	\$151
ICM simplecomfort SC5812 electronic 2 stage cool - 3 stage heat 7 day programmable MCO & ACO operation LED fault indication LCD display	8733800270	\$269
White rogers 1F95-1277 touch screen programmable 3 stage heat 2 stage cool	8733800268	\$357

Factory Furnished DDC Controls

The DDC Controller for Water to Air units includes:

- ▶ Discharge air sensor and leaving water temp sensor
- ▶ Provides BacNet, N2 and Modbus communication. The controller can operate as a stand alone device. The temperature control contractor if any will furnish the communication network, software and front end computer system
- ▶ Price includes alarm notification and room sensors

Description	Part/Model Number	List Price
DDC KIT WATER TO AIR PLUS RS PLUS Room Sensor: local set point adjustment and occupancy override	7738000022	\$1,206
DDC KIT WATER TO AIR PRO RS PRO Room Sensor: LCD screen and zone temperature set point capability	7738000021	\$1,248
DDC KIT HUMIDITY PRO Room Humidity Sensor and RS PRO Room Sensor	7738000023	\$1,654
DDC KIT HUMIDITY PLUS Room Humidity Sensor and RS PLUS Room Sensor	7738000024	\$1,602

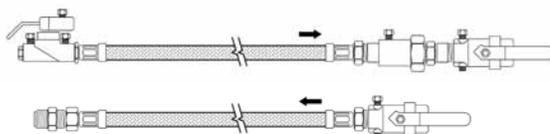
The DDC Controller for Water to Water units includes:

- ▶ Entering water temperature and leaving water temperature sensor
- ▶ Provides BacNet, N2 and Modbus communication. The controller can operate as a stand alone device. The temperature control contractor if any will furnish the communication network, software and front end computer system
- ▶ Price includes alarm notification

Description	Part/Model Number	List Price
DDC KIT WATER TO WATER	7738000025	\$1,071

SS Hoses & Hose Kits

Basic Hose Kit with electric valve, automatic flow valve & p/t's (option 5)



Hose Size Length Diameter	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6
	Hoses only with swivel (Quantity 2) Part Number List Price	Hose kit with ported ball valve, swivel and one p/t Part Number List Price	Hose kit with automatic flow valve (AFV) Part Number List Price	Hose kit with AFV, Y-strainer & blow down valve Part Number List Price	Hose kit with AFV & electric valve Part Number List Price	Hose kit with AFV, Y-strainer, BDV & electric valve Part Number List Price
12 Inch						
½" S up to 10.5 gpm	771-050121	771-050122	771-050123	771-050124	771-050125	771-050126
	\$67	\$159	\$296	\$336	\$538	\$588
24 Inch						
¾" S up to 10.5 gpm	771-075241	771-075242	771-075243	771-075244	771-075245	771-075246
	\$139	\$239	\$375	\$422	\$625	\$691
1" L up to 10.5 gpm	771-100241	771-100242	771-100243	771-100244	771-100245	771-100246
	\$223	\$390	\$529	\$588	\$817	\$887
1" S up to 22 gpm	771-100241	771-100242	771-100247	771-100248	771-100249	771-100240
	\$223	\$390	\$634	\$694	\$904	\$997
1-¼" S up to 22 gpm	771-125241*	771-125242	771-125243	771-125244	771-125245	771-125246
	\$451	\$652	\$877	\$936	\$1,187	\$1,281
1-½" L up to 22 gpm	771-150241*	771-150242	771-150243	771-150244	771-150245	771-150246
	\$664	\$957	\$1,193	\$1,272	\$1,540	\$1,674
1-½" S up to 70 gpm	771-150241*	771-150242	771-150247	771-150248	771-150249	771-150240
	\$664	\$957	\$1,467	\$1,544	\$1,870	\$1,949
2" up to 70 gpm	771-200241	771-200242	771-200243	771-200244	771-200245	771-200246
	\$1,023	\$1,279	\$1,834	\$1,957	\$2,305	\$2,432
36 Inch						
¾" S up to 10 gpm	771-075361*	771-075362	771-075363	771-075364	771-075365	771-075366
	\$239	\$271	\$395	\$451	\$655	\$721
1" L up to 10 gpm	771-100361*	771-100362	771-100363	771-100364	771-100365	771-100366
	\$333	\$417	\$551	\$612	\$841	\$907
1" S up to 22 gpm	771-100361*	771-100362	771-100367	771-100368	771-100369	771-100360
	\$333	\$417	\$634	\$718	\$924	\$1,014
1-¼" S up to 22 gpm	771-125361	771-125362	771-125363	771-125364	771-125365	771-125366
	\$515	\$684	\$877	\$962	\$1,210	\$1,305
1-½" L up to 22 gpm	771-150361	771-150362	771-150363	771-150364	771-150365	771-150366
	\$750	\$1,014	\$1,202	\$1,322	\$1,587	\$1,721
1-½" S up to 70 gpm	771-150361	771-150362	771-150367	771-150368	771-150369	771-150360
	\$750	\$1,014	\$1,513	\$1,594	\$1,913	\$1,990
2" up to 70 gpm	771-200361	771-200362	771-200363	771-200364	771-200365	771-200366
	\$1,173	\$1,426	\$1,923	\$2,045	\$2,388	\$2,511

(*) Indicates Stock Hoses

Size	PSID Range	Available GPM
½" S, ¾", 1" L	2-45	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.5
1" S, 1-¼", 1-½" L	2-45	8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0, 21.0, 22.0
1-½" S, 2"	2-45	25.0, 30.0, 35.0, 40.0, 45.0, 50.0, 55.0, 60.0, 65.0, 70.0

Note: Hose diameter 'L' refers to low flow, 'S' refers to standard flow. Refer to available GPM for hose selection.

Tag and GPM must be specified with order.

Terms & Conditions of Sale

1. GENERAL

1.1 Your purchase order(s), when accepted, will be subject to the following terms and conditions. The terms and conditions contained herein constitute the entire agreement between you ("Buyer") and FHP Manufacturing Company ("FHP") with respect to the transaction(s) covered by your purchase order(s) as confirmed by FHP.

1.2 No modification or waiver of any of the terms and conditions contained herein and no additional or different terms or conditions shall be effective unless (i) modified by FHP's quotation or sales acknowledgement, or (ii) agreed to in a single writing signed by both parties. No oral agreement, course of performance or other means other than such written agreement signed by both parties expressly providing for such waiver shall be deemed to waive the terms of this document.

1.3 The terms and conditions set forth below shall become binding on the parties by:

- 1.3.1 FHP's written acknowledgment of Buyer's purchase order,
- 1.3.2 Signature of Buyer and FHP on an agreement for the purchase and sale of goods, or
- 1.3.3 FHP's delivery of the Goods, in whole or part.

2. PRICES AND TAXES

2.1 All prices are based upon FHP's pricing in effect on the date of the quotation, unless otherwise indicated on the face of the quotation. The delivery date will be established on the order acknowledgement form prepared and sent by FHP. FHP reserves the right to adjust the prices due to increases in material, labor, manufacturing or shipping costs if the increases occur before the delivery date. If the amount of the cost increases exceed ten (10) percent, FHP has the right to cancel the contract on four (4) weeks notice in writing, and the delivery will not be made unless a new price agreement is reached.

2.2 The Prices do not include any applicable Federal, State or local sales, use, excise, value-added or similar-type tax or assessments applicable to the price, sale, use or delivery of the Goods ordered by Buyer. Such taxes and assessments will be included in FHP's invoice and paid by Buyer unless Buyer's purchase order plainly states on its face the existence of an exemption from any such tax or assessment and Buyer provides FHP with evidence of such exemption from the applicable taxing authority.

3. DELIVERY, TITLE & RISK OF LOSS

3.1 Delivery dates are approximate and are based upon prompt receipt of all necessary information from Buyer. Delivery shall be made and title and risk of loss shall pass to Buyer upon FHP placing the Goods with a carrier FCA point of shipment or Buyer's designated consignee. Receipt of the Goods by Buyer FCA point of shipment shall constitute Buyer's acceptance for delivery and waiver of any and all claims against FHP for loss or damage incurred due to delay. Shipments will only be insured at Buyer's request and expense. Title to the Goods is subject to Buyer's compliance with these Terms and Conditions. If Buyer fails to do so, FHP may, at its option, retake possession and title pursuant to Section 7.

3.2 In the event Buyer requests changes in specifications after these Terms and Conditions have become binding, such changes shall become part of the purchase order only upon acceptance by FHP in its sole discretion, whereupon delivery dates will be reasonably extended, FHP shall be compensated for all costs incurred in connection with such change and the price shall be adjusted to maintain FHP's anticipated profit margin.

3.3 No claims for errors in shipment will be considered unless made within 10 days after receipt of materials nor unless

accompanied by necessary papers or documents to substantiate the claim. Claims for loss or damage in transit must be entered and prosecuted by Buyer.

3.4 Goods may not be returned without permission and will not be accepted for replacement or credit.

4. INSTALLATION

4.1 The Goods shall be installed by and at the expense of the Buyer unless otherwise expressly stipulated in writing by Buyer and FHP.

4.2 FHP shall not be liable for material and equipment or the acts of Buyer's employees, agents or contractors, nor has it any responsibility for the performance of Goods not installed in compliance with the Installation Manual under the supervision of its superintendent unless deficient performance is caused by defects independent of the installation and within the scope of the warranty set forth in section 5.

4.3 FHP assumes no responsibility for damages due to deterioration during periods of storage by the Buyer prior to installation and operation.

4.4 FHP reserves the right to make changes in design or additions to or improvements in its products without liability to install such changes, additions or improvements in any product manufactured prior thereto.

5. WARRANTY POLICY

5.1 Unless a different limited written warranty is provided by FHP with the Goods, the terms and conditions of the warranty for the Goods shall be subject to the following limited written warranty. FHP warrants all Goods manufactured by it to be free from defects in material and workmanship for one year from the following:

- 5.1.1 The date of installation if a warranty card has been received by FHP that sets forth the correct date of installation;
- 5.1.2 The date of purchase if the date can be established by an invoice; or
- 5.1.3 The date of manufacture if the information required in 5.1.1 or 5.1.2 is not available.

Buyer's sole and exclusive remedy under this warranty shall be limited to either the repair or exchange of warranted products, at FHP's option FCA FHP's factory. No attempt to repair or improve the Goods or parts by any of FHP's representatives shall change or extend this warranty.

5.2 Limitations on Warranty

THE FOREGOING WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The above warranty does not apply to specialty items or modifications to Goods, which as detailed in section 12.2, are purchased "AS IS."

5.3 If the Buyer (as that term is hereafter defined) or Agent grants to an end user any warranty which is greater in scope or time period than the warranty stated herein, FHP shall not be liable beyond this stated warranty. Except as otherwise provided under the Warranty Processing Procedures section of this warranty, equipment and accessories not manufactured by FHP shall not be the responsibility of FHP. The term "Buyer" as used herein means the person or firm that purchased the product directly from FHP and the end customer.

5.4 Warranty Processing Procedures

No products shall be returned without prior authorization from FHP. Buyer shall prepay all transportation charges for the return of such products to FHP's factory or authorized factory service center. FHP

will not accept any charges for labor and/or parts incidental to the removal and remounting of products repaired or replaced under this warranty. All repair and replacement parts provided under this warranty will assume the identity, for warranty purposes, of the part replaced and the warranty on such replacement parts will expire when the warranty on the original part would have expired. Claims must be submitted within 30 days of failure or be subject to rejection. This warranty is not transferable beyond the first using purchaser.

5.5 The foregoing warranty does not cover conditions over which FHP has no control, including, without limitation, contamination, products damaged or subjected to voltage, or temperature outside of specified range, accident, abuse or misuse after shipment from FHP's factory, electricity or fuel costs or any unrealized savings (anticipated or projected) on energy costs, products altered, disassembled or repaired by anyone other than FHP personnel, FHP authorized factory service center personnel or persons so designated in writing by FHP's Customer Service Department prior to commencement of said work.

5.6 Types of failures which are not attributable to defects in materials and/or workmanship and which are not considered by FHP as part of its warranty include, but are not limited to the following:

- Damages due to deterioration during periods of storage by the Buyer prior to installation and operation.
- Damage due to unsuitable fuels, power, selection to the wrong product settings.
- Damage attributable to accident, abuse, neglect and improper maintenance.
- Operating outside the specified temperatures, venting requirements or flow rates.
- Repairs by unauthorized service personnel.
- Use of the product in a manner or purpose for which it was not designed or intended by FHP.
- Improper installation.
- Damage due to corrosion (including due to water quality, liquids utilized and air), mineral deposits, mold, fungus, abrasion or bacteria.
- Ordinary wear and tear.
- Any portion or component of any system that is not supplied by FHP, regardless of the cause of the failure of such portion or component.
- Products on which the unit identification tags or labels have been removed or defaced.
- Products on which payment to FHP, or to the owner's seller or installing contractor, is in default.

5.7 Whenever possible, each provision of the foregoing warranty shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this warranty shall be prohibited by or invalid under applicable law, such provision shall be ineffective only to the extent of such prohibition or invalidity without invalidating the remainder of such provision or the remaining provisions of this warranty.

6. FORCE MAJEURE

6.1 FHP shall not be liable for delays or failures in delivery, damage to Goods, or performance due to acts of God, governmental authority or public enemy, fire, flood, strike, labor disturbance, epidemic, war, riot, civil disturbance, power failure, embargoes, shortages in materials, components or service, boycotts, transportation delays or any other cause beyond FHP's control.

6.2 In the event of such delay or failure, Buyer's order shall not terminate, but the date of delivery or performance shall be extended for a period equal to the time lost by reason of the delay.

7. CANCELLATION AT DEFAULT OF BUYER

7.1 FHP may cancel Buyer's order without liability effective upon written notice to Buyer, upon occurrence of any of the following Events of Default:

- 7.1.1 Buyer's failure to make timely payment of any sum owing to FHP for the orders accepted and shipped by FHP or otherwise;
- 7.1.2 Buyer's failure to conduct its operation in the normal course of business (including the inability to meet obligations as they accrue);
- 7.1.3 Institution of any proceedings by or against Buyer under any bankruptcy, insolvency or similar law;
- 7.1.4 Appointment or application for a receiver for Buyer;
- 7.1.5 An assignment by Buyer for the benefit of creditors;
- 7.1.6 Failure of Buyer to furnish FHP with a written representation reaffirming Buyer's solvency (it being understood that Buyer's order hereunder constitute a representation by Buyer that it is solvent);
- 7.1.7 Failure of Buyer to maintain any insurance required as herein provided; or
- 7.1.8 Failure of Buyer to maintain the Goods free and clear of any and all Liens of third parties prior to Buyer's payment of the full purchase price.

7.2 Upon cancellation, at FHP's option:

- 7.2.1 Buyer shall pay for all Goods delivered and for all Goods completed or in process pursuant to purchase orders accepted by FHP;
- 7.2.2 With respect to all Goods for which FHP has not received full payment, FHP may stop delivery, retake (Buyer shall surrender the Goods without dispute) or retain possession of the Goods wherever located (all without notice, demand or legal process) and retain, lease or resell (at public or private auction or otherwise) without accounting to Buyer, and any payments received by FHP from Buyer or otherwise may be retained as liquidated damages;
- 7.2.3 FHP may declare any outstanding balance immediately due and owing and collect same from Buyer without further notice or demand, together with interest at the maximum rate permitted by law;
- 7.2.4 Refuse to deliver except for cash payment for all Goods.

7.3 The rights of cancellation and remedies provided in this Section are cumulative and are in addition to any other rights and remedies of FHP in law or equity.

8. PAYMENTS TERMS

8.1 Except as otherwise specified by FHP in writing, terms of payment are net thirty (30) days from date of invoice, with no discount allowed for earlier payment and no right of set-off for amounts due or allegedly due from FHP to Buyer. FHP reserves the right to alter or suspend credit terms, require C.O.D. or advance payment, whenever FHP has reasonable doubt as to Buyer's credit worthiness. If Buyer becomes delinquent in payment or refuses to accept C.O.D. shipments, FHP shall have the right, in addition to any other right it may have, to cancel any order of Buyer's, withhold further deliveries, and declare all unpaid amounts for products or goods previously delivered immediately due and payable. Each shipment shall be considered a separate and independent transaction and payment therefor shall be made accordingly. Amounts past due may, at FHP's discretion, be subject to an interest charge of 1.5% per month. All costs and expenses incurred by FHP as a result for non-payment or

delinquent payment by Buyer, including collection costs, interest, and reasonable attorneys' fees, shall be paid by Buyer. All invoices are due and payable in cash in United States of America funds.

8.2 In the event FHP consents to delay shipments after completion of the Goods or any portion thereof, payment shall become due upon notice to Buyer that such Goods are ready for shipment and such Goods shall thereafter be held at Buyer's risk and expense.

8.3 Buyer grants to FHP a purchase money security interest in the goods, products and/or equipment supplied hereunder. Failure of Buyer to make any payment when due shall entitle FHP, in its sole discretion, to declare all obligations of Buyer immediately due and payable; in such event FHP shall have all the rights and remedies of a secured party under applicable law. Buyer agrees to execute upon request such documents which may be deemed necessary or appropriate by FHP to create, perfect and maintain the perfection of its security interest under applicable law. Buyer hereby appoints FHP as its attorney-in-fact to sign and file a financing statement and such other documents as FHP deems necessary to create, file, perfect and maintain the perfection of its security interest.

8.4 In the event Buyer fails to fulfill the terms of payment of any invoice, or if the financial responsibility of the Buyer shall become impaired or unsatisfactory to the FHP, or if necessitated by any acts of any governmental authority, including financial disclosures mandated by Section 409 of Sarbanes Oxley Act, FHP reserves the right to change terms of payment and/or defer or discontinue further shipments without prejudice to any other lawful remedy, until past due payments are made and satisfactory assurances of Buyer's credit standing are received by FHP or until such acts or requirements of such governmental authority shall have been complied with.

8.5 FHP also reserves the right to cancel the contract in the case of any of the events described in Section 8.4, in which event Buyer shall compensate FHP for any commitments, obligations, expenditures, expenses, and costs including attorney fees, FHP may have incurred in connection with the contract. Each shipment by FHP shall be considered a separate transaction and if payment is not received therefore within the periods specified herein, FHP at its option may bring a separate suit to recover the contract price of each such shipment.

8.6 If any of the following events occur, FHP shall have the right to demand assurance from Buyer that payment in full will be made:

8.6.1 Buyer is delinquent in making payment hereunder for a period of 45 days after payment was due.

8.6.2 Buyer fails to meet his obligations with one or more other suppliers as the obligations occur.

8.6.3 A Writ of Attachment or Judgment is entered in any court of competent jurisdiction.

On written demand for assurance by FHP, Buyer shall, within five (5) days after receipt thereof, furnish, in amount sufficient to secure the full payment of the balance of any monies due hereunder on account of the purchase price, either a penalty bond issued by a competent surety company, or financial security, bank irrevocable letter of credit, or other liquid collateral to be held in escrow by an attorney at law as designated by FHP, to secure the payment of the purchase price aforesaid.

8.7 Buyer agrees that FHP retains its mechanic's lien, payment bond or other legal rights for unpaid deliveries, regardless of what other documents have been presented to FHP for signature that may imply otherwise. Buyer further agrees that FHP has the right to determine, in its sole discretion, how to apply payments, and which invoices to pay with all payments, received on account, despite any advice to the contrary.

9. LIMITATION OF LIABILITIES

9.1 FHP shall not be liable for any indirect, consequential, exemplary, special, incidental or punitive damages, including, without limitation, loss of use, loss of business, revenue, profit or goodwill, downtime costs, damage to associated equipment, cost of substitute goods, facilities or services, or claims of Buyer's customers for such damages, or other commercial or economic damages or costs, that may arise out of, in conjunction with or relate to, the failure of any Goods sold by FHP to Buyer, under any legal theory or cause of action, including, without limitation, tort, contract, warranty, strict liability or federal, state or local statute, ordinance or regulation. In no event shall FHP's liability exceed the price of the Goods which give rise to the claim.

9.2 Buyer agrees that if it transfers title to or leases the Goods to any third party Buyer shall obtain such party's agreement to the limitations of section 9.1.

10. FEDERAL CONTRACT REQUIREMENTS

If the Goods are purchased under a government contract or sub-contract, Buyer shall promptly notify FHP of the provisions of any government procurement laws and regulations which are required to be included in the contract covering the Goods. If compliance with such provisions increases FHP's costs or liability, FHP shall be entitled, at its option, to adjust the prices accordingly, request separate payment of the additional costs, or terminate this agreement with Buyer being responsible for all costs incurred by FHP.

11. EXPORT CONTROLS

FHP and Buyer acknowledge and agree that the Goods covered by Buyer's order are subject to export controls imposed by the United States Government under various federal laws. Buyer shall comply with all applicable recommendations or requirements of the United States Bureau of Customs and Border Protection's ("U.S. Customs") Customs-Trade Partnership Against Terrorism („C-TPAT“) initiative (for information go to <http://www.cbp.gov/> and find the link to the C-TPAT section). Buyer further certifies that the Goods: (a) are not intended to be used for any purpose prohibited by the applicable law or regulations including, without limitation, nuclear related activities or chemical/biological weapons or missiles; (b) are not intended to be released, shipped or re-exported to any destination to which the United States has prohibited shipment; and (c) are not intended to be released, shipped or re-exported, either directly or indirectly, to any persons identified on the Denied Persons List published by the U.S. Department of Commerce Bureau of Industry and Security. This Section shall survive any termination or expiration of Buyer's order.

12. CANCELLATION, CHANGES AND SPECIAL ORDERS

12.1 Buyer's orders may NOT be canceled or changed by Buyer without the prior written consent of FHP, which consent may be granted or withheld in FHP's sole discretion. In the event of such cancellation, Buyer shall be liable for FHP's anticipated profit and for all costs incurred prior to cancellation.

12.2 Buyer's may request specialty items or modifications. Any such specialty items or modifications will not be UL approved unless otherwise agreed by FHP in writing by an authorized representative of FHP. FHP does not warrant that the specialty items or modifications will perform to any level or standard and such specialty items or modifications are "AS IS" and the warranty provided in section 5 above does not apply.

13. RELEASE AND INDEMNIFICATION

Buyer acknowledges that it will use the Goods only in accordance with the Installation Manual applicable to the Goods. As such, Buyer agrees to release FHP from. and to hold

harmless and, upon request, defend FHP for, from and against, any and all claims, suits, actions or legal proceedings brought against FHP, their affiliates and their officers, directors, employees and representatives, seeking injunctive relief or damages to recover any loss, damage or injury to person or property, including reputation and goodwill, whether brought by a federal, state or local governmental agency, or any other person, caused by or arising out of Buyer's purchase or use of the Goods. This release, hold harmless and indemnification shall apply, regardless of whether such claims, lawsuits, judgments, demands, actions or causes of action allege or are based on negligence, breach of implied warranty, strict liability, reckless or intentional conduct, or any other nature or manner of legal theory or cause of action. The sole exception to this agreement is if such claims, suits, actions or legal proceedings arise exclusively from failure of the Goods to meet the warranty set forth in Paragraph 5 above.

14. MISCELLANEOUS

14.1 NOTICE. All notices in connection with Buyer's order shall be in writing and shall be given by Federal Express or other reputable next day courier service or U.S. mail, postage prepaid, certified or registered, return receipt requested. Each notice shall be addressed to FHP at 601 NW 65th Courth, Ft. Lauderdale, FL 33309, Attn: President and to Buyer at the address contained in the Purchase Order, or at such other address as a party shall provide by notice to the other party. Notice shall be deemed effective upon delivery.

14.2 WAIVERS. No waiver shall be effective unless it is in writing. The failure of either party to require performance under any provision of this Agreement shall in no way affect the right of such party to require full performance at any subsequent time, nor shall the waiver by either party of a breach of any provision of this Agreement constitute a waiver of any succeeding breach of the same or any other provision.

14.3 SEVERABILITY. These Terms and Conditions shall be deemed severable and if any portion hereof shall be held to be invalid for any reason, the remainder shall not be deemed invalid but shall remain in full force and effect.

14.4 GOVERNING LAW/ARBITRATION. These Terms and Conditions shall be governed and construed in accordance with the laws of the State of Michigan except for its choice of law provisions. The United Nations Convention of the International Sale of Goods shall not apply. The Buyer and FHP agree to submit all disputes, except for requests for equitable relief by way of an injunction or restraining order (including FHP's right to relief under Section 7 above), between them to binding arbitration, which shall be held in or near Farmington Hills, Michigan, in accordance with the rules of the American Arbitration Association ("AAA") pertaining to commercial arbitration. All of Buyer's disputes and claims shall be brought within two (2) years of the date of delivery by FHP. Within 30 days after either party has notified the other in writing that it is submitting a dispute to arbitration, one arbitrator shall be appointed in accordance with said rules. The arbitrators shall have no authority to award punitive damages or any other damages excluded herein. A hearing of no more than five (5) consecutive business days shall be completed within 180 days from the Statement of Claim. The arbitration award shall be by a written decision containing findings of fact and conclusions of law and shall be final and binding. It may be entered in and enforced by any court of competent jurisdiction. The party prevailing in the arbitration or any other legal proceedings shall be entitled to recover its costs including reasonable attorney's fees incurred due to the arbitration or other legal proceedings.

14.5 MODIFICATION. These Terms and Conditions may only be modified by (i) a written amendment executed by authorized representatives of each party or (ii) from time to time by posting revised Terms and Conditions to FHP's Website at www.fhp-mfg.com, or its successor website. Such revised Terms and Conditions shall apply to all purchase order revisions/amendments and new Orders issued on or after the effective date thereof. Buyer shall be responsible to review FHP's Website.

14.6 ENTIRE AGREEMENT. This is the complete and final agreement between the parties related to the subject matter of these Terms and Conditions and supersedes all prior writings, conversations, understandings or agreements.

14.7 CREDIT. FHP reserves the right to grant, deny or stop advancing credit at any time in its sole discretion. FHP's credit policies are subject to change at any time without notice.

a. CREDIT INFORMATION. Buyer hereby consents to FHP giving or obtaining credit information to or from third parties regarding Buyer.

b. CREDIT CHECK AUTHORIZATION. Buyer authorizes FHP to conduct a credit investigation for the purpose of extending credit to Buyer. Buyer agrees to supply such information as may be required by FHP to: (i) warrant the future extension of credit; (ii) enable FHP to perfect liens; or (iii) recover upon any bond issued for its protection.

c. Buyer further agrees to inform FHP of any material change in the condition of its business or of any changes in its legal structure.

14.8 PARTIES IN INTEREST. These Terms and Conditions shall be binding upon and inure to the benefit of the parties and their respective successors and assigns.

14.9 ASSIGNMENT. Buyer shall not assign Buyer's order without the prior written consent of FHP, which consent may be granted or withheld in the sole discretion of FHP.

14.10 CLASS I OR II SUBSTANCES. Buyer warrants and agrees that pursuant to 40 C.F.R. 82.154(m), any class I or II substances included as a part of this sale are sold only for eventual resale to certified technicians or that Buyer is a certified technician under 40 C.F.R. 82, subpart B.

14.11 ENFORCEMENT. Buyer shall indemnify FHP against all costs and expenses (including attorney fees) reasonably incurred in the enforcement of Buyer's order and these Terms and Conditions.

14.12 DISPOSAL. **Buyer is responsible for the proper disposal of the Goods and must comply with all Federal, State and applicable local laws and regulations related to disposal, including the disposal of refrigerants. FHP is not responsible or liable for the disposal of the Goods.**

14.13 CONFIDENTIALITY. Prints or drawings attached to Buyer's order or otherwise furnished by FHP to Buyer in connection with FHP's performance under Buyer's order are the sole property of FHP. FHP retains all patent and other rights, including exclusive rights of use and/or manufacture and/or sale. FHP prints and drawings that are provided to Buyer for use with the Goods are to be reviewed only by necessary and authorized personnel of the Buyer and with the understanding that the information contained in the prints and drawings is confidential and proprietary to FHP and owned by FHP. FHP does not convey any permission to show, reproduce, or manufacture the article or articles shown in the prints or drawings, such permission to be granted only by specific authorization in writing signed by an officer or other authorized agent of FHP.

Bosch Water Source Heat Pump

10-Year Limited Warranty for distributor sold residential product*

Models covered

This limited warranty is provided by FHP Manufacturing Company ("FHP") and covers Bosch Water Source Heat Pumps (hereinafter referred to as "Heat Pump"). This warranty is provided to the original purchaser of the Heat Pump as long as the Heat Pump remains installed at its original place of installation.

Warranty coverage

Ten Year –Limited Warranty

FHP warrants that all internal components incorporated into the Heat Pump at the time of shipment by FHP shall remain free from defects in workmanship and materials for ten years from proof of certificate of occupancy date or proof of certified start up date, provided it is installed and properly maintained by a qualified and trained HVAC contractor and the other conditions of this warranty are met. If FHP determines that the Heat Pump or any part of the Heat Pump has a defect in workmanship or materials, FHP, at its option, will repair or replace, including labor charges at FHP approved rates at the date of purchase, the defective part.

Heat Pump System Accessories

the Heat Pump may be delivered with FHP supplied accessories and components which have not been incorporated into the Heat Pump at the time of shipment ("Other Components"). Such Other Components are warranted by FHP to be free from defects in workmanship and material for one year from proof or certificate of occupancy date or proof of certified start up date, provided they are installed and properly maintained by a qualified and trained HVAC contractor and the other conditions of this warranty are met. If a defect exists in the Other Components, FHP will repair or replace them and pay for the associated labor charges at FHP approved rates, if FHP determines that a defect in workmanship or materials exists. In addition such Other Components may be warranted by the Manufacturer. You must contact the Manufacturer of the Other Components for matters relating to their Warranty.

Items not covered

This limited warranty does not cover the following circumstances:

1. Heat Pumps installed in a building other than a one or two family residential dwelling, unless individual Heat Pumps are installed for each dwelling unit.
2. Components or parts not provided by FHP.
3. Components or parts on which the tags or nameplates have been removed, altered or defaced.
4. Scratches in or discoloration of finishes.
5. Serviceable items and normal maintenance as required per the Installation and Maintenance Manual.
6. The workmanship of any installer. FHP disclaims and does not assume any liability of any nature for unsatisfactory performance caused by improper installation, repair or maintenance.
7. Any labor or material costs for removal, reinstallation, repair and replacement of the defective component or part unless otherwise provided above.
8. Electricity or fuel costs, or any increases or unrealized savings in same, for any reason whatsoever.
9. Transportation to FHP, if necessary.
10. Damage caused by excessive temperatures or pressures, fuel or gas explosion, electrochemical reaction, water and air impurities, electrical failures, use during construction, flooding or acts of God.
11. Any damage or failure resulting from the introduction of harmful chemicals, caustic fluids, or liquids detrimental to copper tubing, including but not limited to improperly applied or maintained heat transfer fluids or chlorinated pool or spa water.
12. Any damage or failure resulting from improper unit sizing or under sizing by the installer.
13. Except as set forth above related to Other Components, components of the Heat Pump system that are part of the Heat Pump system into which the Heat Pump is incorporated that are not FHP products are not covered by this warranty and are limited to the warranty of the manufacturer of such components. In order to file a claim for warranty you should contact the manufacturer
14. Shipping charges, delivery expenses or administrative fees incurred by the purchaser in repairing or replacing the Heat Pump.

* Air handlers' air coils include a 5-Year Limited Warranty.
All other parts include the 10 year limited warranty.

Conditions of warranty

The warranty herein is void under the following circumstances:

1. Failure or malfunction resulting from improper or negligent operation, accident, abuse, freezing, electrical imbalance characteristics, misuse, unauthorized alteration, incorrect electrical supply, electrical surges, or improper installation, repair or maintenance. See the Installation and Maintenance Manual for installation and maintenance information.
2. Failure or malfunction resulting from any conditions within the structure, including mold and/or mildew and/or any chemical or toxin secreted there from or damage resulting from mold, fungus or bacteria.
3. Failure or malfunction resulting from a contaminated or corrosive air or liquid supply, the addition of unapproved chemicals, operation at abnormal temperatures, pressures or flow rates, opening of the refrigerant circuit by unqualified personnel or any attachment, accessory or component not authorized and approved by FHP. See the Installation and Maintenance Manual for installation and maintenance information.
4. Failure or malfunction due to misapplication or faulty building design or construction, including inadequate refrigerant levels, condensate drain, duct work design or installation.
5. Products on which payment to FHP is or has been in default.
6. Work performed without prior authorization or approval and without authorization/requisition number and without proper documentation verifying compliance with above terms.

Limited warranty

OTHER THAN THE OBLIGATIONS OF FHP EXPRESSLY SET FORTH HEREIN, FHP DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. FHP'S SOLE OBLIGATION WITH RESPECT TO THE HEAT PUMP AND PURCHASER'S EXCLUSIVE REMEDIES ARE SET FORTH IN

THE FOREGOING LIMITED WARRANTY. FHP SHALL NOT BE LIABLE FOR ANY INDIRECT, PUNITIVE, INCIDENTAL, SPECIAL, CONSEQUENTIAL OR SIMILAR DAMAGES INCLUDING, WITHOUT LIMITATION, INJURY OR DAMAGE TO PERSONS OR PROPERTY OR DAMAGES FOR LOSS OF USE, LOST PROFITS, INCONVENIENCE OR LOSS OF TIME.

NOTE THAT ANY REPAIRED OR REPLACED PRODUCT WILL BE WARRANTED FOR ONLY THE UNEXPIRED TERM OF THE ORIGINAL WARRANTY.

Some states do not allow the exclusion of limitation of damages, or limitations on how long an implied warranty lasts, so the above limitations and exclusions may not apply to you.

Warranty claims process

if you have a warranty claim you should notify the contractor who installed your Heat Pump and ask that the contractor notify the distributor from whom the contractor purchased the Heat Pump. If this action is not possible or you don't receive a response, contact FHP Manufacturing Company, 601 NW 65th Court, Ft. Lauderdale, FL 33309. To process your claim, you will need a copy of your original invoice or other proof of purchase, the product serial number and documentation showing the original installation date and location. The alleged defective components or parts must be returned to FHP in accordance with FHP procedure then in force for handling goods returned for the purpose of inspection to determine cause of failure (contact FHP if you have questions regarding the return process). If FHP determines that the returned components and/or parts are defective and that this warranty applies, FHP will furnish the repaired or replacement components and/or parts to an authorized FHP distributor who, in turn, will forward the components and/or parts to the contractor who installed your Residential Heat Pump.

Effective for sales on or after 4/1/2011.

Bosch Thermotechnology Corp.

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