



Reversible Air-To-Water Screw Heat Pumps

Model RTX B

Cooling capacity 480 - 1050 kW

Heating capacity 540 - 1095 kW

RTXB Heat Pump Chillers, a Sustainable Solution for Heating and Cooling

Standard versions

- 3 Acoustic versions
- 3 Hydraulic versions

Unit description

- Screw compressors
- ECO-PROFILE axial fans statically and dynamically balanced
- Water side heat exchangers shell and tube type with water connections
- Air side heat exchangers high efficiency finned coils with seamless copper tubes expanded into corrugated aluminium
- Electronic expansion valve
- Microprocessor
- Casing and panels in galvanised and painted steel



TO BE COMBINED WITH STANDARD VERSIONS

- (H):** Desuperheater (partial recovery).
- (L):** Low noise with insulated compressors housing and two speed fan motors.
- (S):** Super low noise with with insulated compressors housing, oversized coils and variable fan speed.

Options

- EC motor brushless fans
- Compressors stepless capacity control
- Soft start
- On/off condensing control
- Condensing control with variable fan speed modulation
- Power factor correction to $\cos \phi$ 0.91
- Automatic circuit breakers for compressors and/or fans
- Numbered wires
- Star - Delta

- Control panel electric heater with thermostat
- Phase failure protection relay
- Anti-intrusion and/or condensing coil protection grilles
- Gas gauges
- Pre painted condensing coils
- Epoxy coated condensing coil fins
- Copper/copper condensing coils
- Tinned copper/copper condensing coils
- High static pressure fans 100 Pa

Accessories

- Remote control display
- Communication card RS485
- BACnet adapter
- LON adapter
- Flow switch
- Automatic water filling
- Water strainer
- Kit flanges
- Victaulic kit
- Water gauges
- Rubber or spring anti vibration mounts

Advantages

- Eco-friendly and high efficient refrigerant R134a, with no negative impact on stratospheric ozone layer (ODP=0). A suitable refrigerant choice for high ambient temperature applications.
- The compact overall dimensions allow extremely flexible installations.
- The maintenance operations are simple thanks to the easy access of the components.

General technical data

RTXB	Version		140	150
Cooling capacity (1)		kW	476	515
Compressors power input		kW	155	170
Total EER 100%			2.76	2.74
Heating capacity (2)		kW	540	563
Compressors power input		kW	151	158
Total COP 100%			3.20	3.19
Number of refrigerant circuits		N	2	2
Number of compressors		N	2	2
Type of compressors			screw	
Exchanger type			shell & tube	
Pressure sound level (3)		dB(A)	61	62
Power sound level		dB(A)	93	94
Pressure sound level (3)	L	dB(A)	59	60
Power sound level	L	dB(A)	91	92
Pressure sound level (3)	S	dB(A)	56	57
Power sound level	S	dB(A)	88	89
Maximum power input		kW	204	234
Maximum full load current		A	361	414
Full load starting current		A	669	746
Electrical power supply		V/Ph/Hz		

- (1) Outdoor temperature 35°C - chilled water temperature 12/7°C
 (2) Outdoor temperature 7°C 90% R.H. - hot water temperature 45°C
 (3) Calculated according to ISO 3744 at 10 m distance from the unit

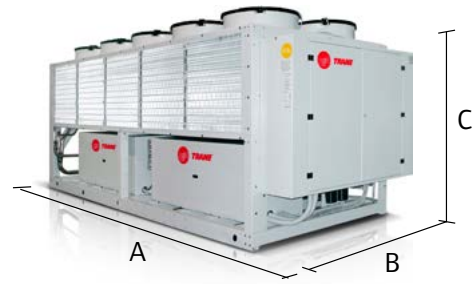
RTXB	Version		160	180	190	220	250	300
Cooling capacity (1)		kW	555	634	649	767	908	1047
Compressors power input		kW	178	193	199	237	283	346
Total EER 100%			2.80	2.92	2.91	2.91	2.91	2.78
Heating capacity (2)		kW	607	664	703	806	948	1094
Compressors power input		kW	168	179	190	220	258	311
Total COP 100%			3.22	3.28	3.29	3.26	3.30	3.18
Number of refrigerant circuits		N.	2	2	2	2	2	2
Number of compressors		N.	2	2	2	2	2	2
Type of compressors			screw					
Exchanger type			shell & tube					
Pressure sound level (3)		dB(A)	62	62	62	62	62	63
Power sound level		dB(A)	94	95	95	95	95	96
Pressure sound level (3)	L	dB(A)	60	60	60	60	60	61
Power sound level	L	dB(A)	92	93	93	93	93	94
Pressure sound level (3)	S	dB(A)	57	57	57	57	57	58
Power sound level	S	dB(A)	89	90	90	90	90	91
Maximum power input		kW	237	250	277	329	372	440
Maximum full load current		A	420	444	491	582	658	778
Full load starting current		A	752	776	833	886	808	1008
Electrical power supply		V/Ph/Hz	400/3/50					

- (1) Outdoor temperature 35°C - chilled water temperature 12/7°C
 (2) Outdoor temperature 7°C 90% R.H. - hot water temperature 45°C
 (3) Calculated according to ISO 3744 at 10 m distance from the unit



Dimensions and weights

RTXB	Version		140	150
A	Standard-L	mm	6475	6475
A	S	mm	6475	6475
B		mm	2260	2260
C		mm	2400	2400
Shipping weight		kg	5446	5882
Shipping weight	L	kg	5796	6232
Shipping weight	S	kg	6432	6867
Shipping weight (1)	H	kg	51	52
Shipping weight (1)	1	kg	76	112
Shipping weight (1)	2	kg	112	115
Shipping weight (1)	3	kg	176	176
Shipping weight (1)	4	kg	157	233
Shipping weight (1)	5	kg	233	239
Shipping weight (1)	6	kg	365	365



(1) Extra weight for hydraulic versions

Hydraulic options

(1): Single pump - Low head pressure
(2): Single pump - Medium head pressure
(3): Single pump - High head pressure

(4): Dual pump - Low head pressure
(5): Dual pump - Medium head pressure
(6): Dual pump - High head pressure

RTXB	Version		160	180	190	220	250	300
A	L	mm	7645	8610	8610	9580	10550	11520
A	S	mm	7645	8610	8610	9580	10550	12490
B		mm	2260	2260	2260	2260	2260	2260
C		mm	2400	2400	2400	2400	2400	2400
Shipping weight		kg	7009	7879	7981	9415	11160	11303
Shipping weight	L	kg	7359	8279	8381	9815	11560	11703
Shipping weight	S	kg	7371	8287	8399	9835	11893	12832
Shipping weight (1)	H	kg	52	52	52	52	52	52
Shipping weight (1)	1	kg	112	115	115	115	115	115
Shipping weight (1)	2	kg	115	172	172	172	172	172
Shipping weight (1)	3	kg	250	250	273	273	273	273
Shipping weight (1)	4	kg	233	239	239	239	239	239
Shipping weight (1)	5	kg	239	356	356	356	356	356
Shipping weight (1)	6	kg	518	518	567	567	567	567

(1) Extra weight for hydraulic versions



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