EB 2.0 CHILLER
LIQUID COOLING



www.pfannenbergusa.com/liquid-cooling/

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

EB CHILLERS | EB 80 WT / EB 95 WT / EB 140 WT / EB 160 WT

27,000 - 54,000 BTU/hr

- Precision fluid temperature control up to ±2°k for accurate process cooling through smart controller, and custom designed refrigerant system protects the compressor and extends service life.
- Early alarm and auto shut-off protects process equipment from low/no fluid flow through integrated electric tank level switch and flow switch connected to smart controller.
- Open loop design with non-ferrous component prevents corrosion.
- Suitable for use with water or water/glycol mixture with easy level monitoring.
- Compact size and easy installation with optional accessories to meet application needs.

Standard Features

- Hot gas by-pass refrigerant circuit
- Programmable smart controller
- Internal hydraulic bypass circuit
- Electrical tank level switch
- Coolant flow switch
- Non-ferrous hydraulic circuit
- Wired remote control on/off ready
- R410a environmental friendly refrigerant
- Micro-channel condenser



Fluid Flow Protection

- Recirculates fluid during low demand periods through built-in hydraulic bypass valve.
- Electric tank level switch connected to controller prevents pump from running dry.
- Flow switch will trigger alarm if flow is too low, protecting the equipment being cooled.

Temperature Accuracy and Cooling Load Management

- Hot gas bypass design with on/off fan controls temperature to within ±2°k.
- Manages load and protects compressor from over-working, which extends service life.

Ease of Installation

- Comes standard with plinth to elevate chiller if installed on damp/wet area.
- Fork truck ready for moving with eye-bolt.

Smart Controller

- Sets min/max water temperature with alarm.
- Temperature differential control with external sensor.
- Error message display with quick reference.

Easy Fluid Access

- Open-loop design for easy fluid monitoring.
- Top-up access in the front with gauge level.
- Manometer to read fluid loop pressure.

Non-Ferrous Design

Non-Ferrous tank and piping reduces corrosion.

508A

EB 80/95/140/160 WT CHILLERS (27,000 - 54,500 BTU/hr)

Model Number	Rated Voltage AC 50 / 60	Cooling Capacity W64 / A90 (with pump) 60 Hz			Flow Rate (pump)	Pump Pressure	Tank Volume	Connections (medium) IG	Dry Weight (without packaging)
	V ±10 %	BTU/hr	kW	Ton	GPM	psig	gal	BSP	lbs
EB 80 WT Part Number: 42030805015	400 3~ / 460 3~	27,000	8	2.25	6	44	13	3/4"	330
EB 95 WT Part Number: 42030955030	400 3~ / 460 3~	32,500	9.5	2.7	7	44	13	3/4"	352
EB 140 WT Part Number: 42031405022	400 3~ / 460 3~	47,750	14.8	4	10	44	19	1"	396
EB 160 WT Part Number: 42031605026	400 3~ / 460 3~	54,500	17.6	4.5	11	44	19	1"	418

Additional Data	EB 80	EB 95	EB 140	EB 160
Ambient temp. range	Min: 15°C / 59°F . . . Max: 45°C / 113°F			
Medium	Water / Glycol – 80% / 20%			
Medium temperature (outlet)	50°F to 95°F (10°C to 35°C); Factory Setting 64°F (18°C)			
Target value tolerance (°k)	±2k (±1k option)			
Refrigerant type	R410A			
Max power consumption (kW)	3.3 / 4.6	3.8 / 4.6	5.3 / 11.3	7.1 / 14.1
Max current consumption (A)	7.6 / 8.3	8.5 / 9.7	6.8 / 11.9	18.9 / 15.1
Max Noise level @ 60 Hz (EN ISO 3741)	72 dB			
Application Environment	Indoor use only			
Design	**Housing/Cover:** powder coated RAL 7035 (light gray)			

For additional technical data, drawings and templates visit www.pfannenbergusa.com

Subject to technical amendments and misprints.

Dimensions

inches	EB 80 / 95 WT	EB 140 / 160 WT
X	23.62	29.96
Y	54.17	60.40
Z	29.94	33.68



EB 2.0 L CHILLERS | EB 260 WT / EB 310 WT / EB 440 WT

75,000 - 153,000 BTU/hr

Specifically developed to meet the demanding requirements of today's industrial applications, the EB 2.0 L chillers allow higher cooling capacities in the smallest possible footprint. With a long list of standard features and many available options, Pfannenberg's EB series provides the best choice for cooling of machinery of any kind.

- Aluminum air filter
- Mod-bus communication RTU RS485
- 5 bar pump
- Flowswitch
- Hot gas bypass with stability +/-1K (50-100% load)
- Differential thermostat probe +/-0.5K
- Item number description of accessories (separate items)
- Harting connector for outdoor electrical application
- Outdoor installation down to -10°C (14F)
- UL508A e-box for outdoor applications

Powerful basic equipment
High-quality controllers enable numerous additional functions and error detection.

Numerous options
Many optional features including advanced sensors, communication and industrial connectors.

Flexible power supply
Possible use in different voltages. E.g. 400 V 50 Hz and 460 V 60 Hz.

Environmentally friendly
Thanks to microchannel technology the content of refrigerants is kept to a minimum in the refrigeration circuit.

CE and UL certification
Certified to CE and UL508a as a standard.

Cooling medium
Water I water/glycol mixtures.



High performance fans
Huge airflow to guarantee operation even at high ambient conditions.

Robust industry standard
Steel housing with thick powder coating.

UL 508A CE

EB 260 / 310 / 440 WT-UL-CUS CHILLERS (89,053 - 151,492 BTU/hr)

Model Number	Rated Voltage AC 50 / 60	Cooling Capacity W64 / A90 (with pump) 60 Hz			Flow Rate (pump)	Pump Pressure	Tank Volume	Connections (medium) IG	Dry Weight (without packaging)
	V ±10 %	BTU/hr	kW	Ton	GPM	psig	gal	BSP	lbs
EB 260 WT-UL-CUS Part Number: 42032605003	400 / 460 3~	89,053	26.1	7.4	22	72	18.492	1-1/4"	888.463
EB 310 WT-UL-CUS Part Number: 42033105002	400 / 460 3~	106,454	31.2	8.8	36	72	52.8344	1-1/2"	956.806
EB 440 WT-UL-CUS Part Number: 42034405005	400 / 460 3~	151,492	44.4	12.6	48	72	52.8344	1-1/2"	1102.31

Additional Data	EB 260	EB 310	EB 440
Ambient temp. range	Min: -10°C / 14°F . . . Max: 45°C / 113°F		
Medium	Water / Glycol – 80% / 20%		
Medium temperature (outlet)	50°F to 95°F (10°C to 35°C); Factory Setting 64°F (18°C)		
Target value tolerance (°k)	±1K (±0.5K optional)		
Refrigerant type	R407C		
Max power consumption (kW)	12.1 / 14.2	17.4 / 22.2	19.1 / 23
Max current consumption (A)	22 / 22.5	31 / 33	34.5 / 35
Max Noise level @ 60 Hz (EN ISO 3741)	82 dB		
Application Environment	Indoor/Outdoor Use		
Design	**Housing/Cover:** powder coated RAL 7035 (light gray)		

For additional technical data, drawings and templates visit www.pfannenbergusa.com

Subject to technical amendments and misprints.

Dimensions

inches	EB 260 WT-UL-CUS	EB 310 / 440 WT-UL-CUS
X	30	31
Y	55.5	55.7
Z	49.6	65.7

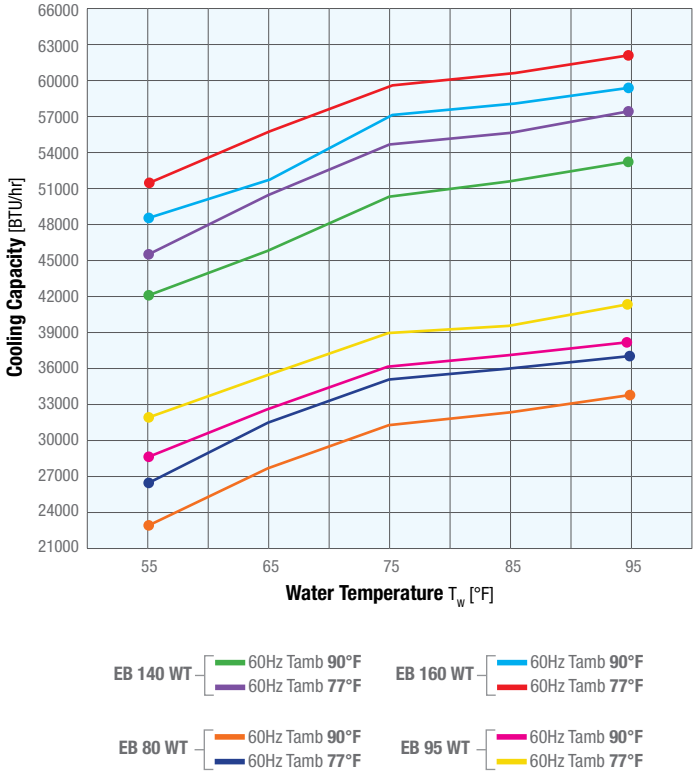
EB 260 WT-UL-CUS



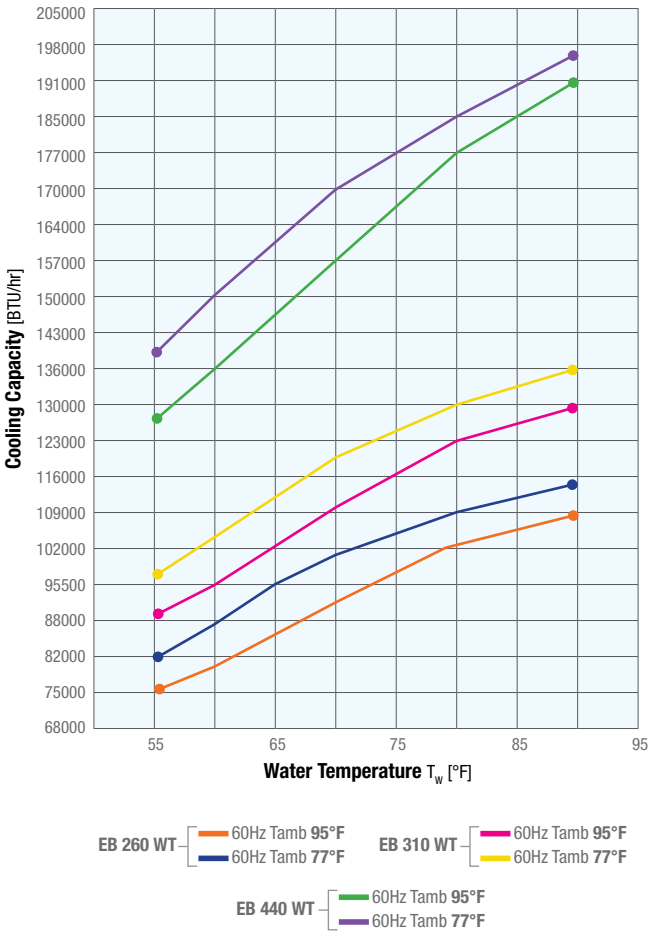
EB 310 / 440 WT-UL-CUS



EB 80 WT (60Hz) **/ EB 95 WT** (60Hz)
EB 140 WT (60Hz) **/ EB 160 WT** (60Hz)



EB 260 WT (60Hz) **/ EB 310 WT** (60Hz)
EB 440 WT (60Hz)



Pfannenberg's innovation has made it one of the largest globally operating manufacturers of thermal management and process cooling equipment today. Our wide product range stretches from complete system solutions for machine cooling and enclosure air conditioning to individual warning and signaling components.

We speak your language - In addition to manufacturing facilities located on three continents, Pfannenberg has developed a worldwide network of local subsidiaries and sales partners eager to meet your service needs.

Global Service

We're there when you need us - Worldwide

Pfannenberg Service Centers
Germany (headquarters), USA, China, UK, Italy, Brazil, France, Russia, Singapore and India

Service Support Centers
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Service Agents
Serving 42 countries on 5 continents

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