



Texa BLU-BIT Air-Water Heat Exchangers

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Texa BLU-BIT

Air-Water Heat Exchangers

brenclosures.com.au/blu.htm



Texa BLU-BIT Features

- Closed system with no use of external air - ideal for dusty environments
- Chilled water used for cooling
- Optional temperature control thermostat (see accessories from page 114 onwards)
- Approvals - CE
- Materials
 - Mild steel powdercoated
- Surface finish - powdercoated
- Protection rating - IP55

The Texa BLU & BIT ranges are air-water heat exchangers with cooling capacities from 1000W to 15kW. Maintenance is minimal as no outside air is required for cooling components. This range is ideal for extremely

dusty environments so long as chilled water is available. An optional temperature control system is available incorporating a thermostat and/or level indicators, along with an ON/OFF solenoid valve.

Inclusions

All fixings required for assembly.

BLU/BIT Selection Guide - 115V

Catalogue No	Cooling (W)	Mounting	Water Flow Required (l/h)	Power Supply (V/Ph/Hz)	Air Flow Produced (m ³ /h)	Dimensions (mm)		
						Height	Width	Depth
TX-BLU10CX0A*	1000	Wall	150	115/1/50-60	330	450	310	115
TX-BLU18CX0A*	1750	Wall	150	115/1/50-60	570	901	398	137
TX-BLU25CX0A*	2500	Wall	500	115/1/50-60	860	901	398	137
TX-BLU35CX0A*	3500	Wall	500	115/1/50-60	1050	1148	398	163
TX-BLU45CX0A*	4500	Wall	500	115/1/50-60	1450	1148	398	163
TX-BLU60CX0A*	6000	Wall	800	115/1/50-60	1450	1500	450	163
TX-BIT25CX0A*	2500	Roof	500	115/1/50-60	750	270	400	542

* Available on request

BLU/BIT Selection Guide - 240V

Catalogue No	Cooling (W)	Mounting	Water Flow Required (l/h)	Power Supply (V/Ph/Hz)	Air Flow Produced (m ³ /h)	Dimensions (mm)		
						Height	Width	Depth
TX-BLU10BX0A*	1000	Wall	150	230/1/50-60	330	450	310	115
TX-BLU18BX0A*	1750	Wall	150	230/1/50-60	570	901	398	137
TX-BLU25BX0A*	2500	Wall	500	230/1/50-60	860	901	398	137
TX-BLU35BX0A*	3500	Wall	500	230/1/50-60	1050	1148	398	163
TX-BLU45BX0A*	4500	Wall	500	230/1/50-60	1450	1148	398	163
TX-BLU60BX0A*	6000	Wall	800	230/1/50-60	1450	1500	450	163
TX-BLUA0BX0A*	10000	Wall	2000	230/1/50-60	2420	1932	797	206
TX-BLUA5BX0A*	15000	Wall	2000	230/1/50-60	2900	1932	797	206
TX-BIT25BX0A*	2500	Roof	500	230/1/50-60	750	270	400	542

* Available on request

BLU/BIT Selection Guide - 400V to 440V

Catalogue No	Cooling (W)	Mounting	Water Flow Required (l/h)	Power Supply (V/Ph/Hz)	Air Flow Produced (m ³ /h)	Dimensions (mm)		
						Height	Width	Depth
TX-BLU60GX0A*	6000	Wall	800	400-440/2/50-60	1450	1500	450	163
TX-BLUA0GX0A*	10000	Wall	2000	400-440/2/50-60	2420	1932	797	206
TX-BLUA5GX0A*	15000	Wall	2000	400-440/2/50-60	2900	1932	797	206

* Available on request

BLU-BIT Air-Water Heat Exchangers for Vertical or Roof Mounting

BLU-BIT Air-Water Heat Exchangers for Vertical or Roof Mounting

High cooling capacity and a compact design with minimal maintenance are characteristics of the BLU and BIT air-water heat exchangers. They are suitable for extreme environments where high temperatures or contaminants are present. Chilled water provides cooling to the unit, isolating it from the outside atmosphere.

A Wide Power Range

With a range of cooling powers available from 1750 to 15kW for the vertical, and 2500W for roof mounted units, the BLU-BIT series has been design for extreme environments and suit a wide range of electrical enclosure applications.

No Routine Maintenance

As cooling is provided by chilled water and the BLU-BIT series uses a closed loop cooling system, there is nothing in these systems that requires routine maintenance. This also means that this type of climate control is ideal for extreme environments where dust or oil could cause a problem with other types of climate control.

Optimum Enclosure Protection

Thanks to the special internal configuration of the BLU-BIT series, which keeps the flow of outside air separate and sealed from the inside air, and to the self adhesive seal, these cooling units allow enclosures to maintain an IP55 protection rating.

Safeguarding the Environment

Great attention has been taken to limit the noise level produced by these units. This was one of the most important design criteria for the BLU-BIT range, and helps to ensure a quiet working environment.

Supply Voltage

The BLU-BIT cooling units are available for mains AC supply voltages of 230V single phase, 400-440V two phase (in the case of voltage between lines when there is no neutral) and 115V single phase. All supplies are bi-frequency (50-60Hz) depending on the requirements of the location.

Paint Finish

RAL 7032 ripple epoxy paint is the standard finish used on all BLU-BIT coolers.

Accessories

An optional thermostat and/or level indicators can be incorporated to control an ON/OFF solenoid valve supplying the chilled water to the unit. This helps ensure that the temperature inside the enclosure is controlled accurately. This can prevent condensation from forming inside the enclosure as well as ensuring that the use of chilled water is kept to the minimum required.



Application Tips

- When selecting a cooling unit, maintain a safety margin of at least 10% on the rated power of the most difficult conditions.
- Seal the enclosure well. Cracks or openings will cause the cooling units capacity to drop considerably, and may cause condensation to form.
- Install the cooling unit vertically or on the roof, but always as high up as possible, so that the air is taken from the top of the enclosure, where it is at its hottest.
- Air-water heat exchangers do not have any temperature controls built in. To set enclosure temperatures use the optional thermostat and/or level indicators to control an ON/OFF solenoid valve supplying the chilled water to the unit. Unless it is absolutely necessary, do not reduce the temperature below 35°C as this may cause condensation to form.
- Arrange the electronic components inside the enclosure in such a way as to facilitate the flow of air. Do not obstruct the air inlet or outlet with components installed too close. Any components that have their own ventilation system must have a flow pattern which does not hinder the cooling units flow.
- The line supplying electricity to the cooling unit must be protected by a delay fuse or circuit breaker suitably rated according to the units technical data.
- To work properly, these exchangers must be connected to existing water mains or water chillers.

Quick Selection Guide

Cooling capacity (W)	1750		2500		3500	
Dimensions	H	901	901	901	1148	1148
	W	398	398	398	398	398
	D	137	137	137	163	163
Power Supply V/ph/Hz	230/1/50-60	115/1/50-60	230/1/50-60	115/1/50-60	230/1/50-60	115/1/50-60
Catalogue Number	TX-BLU18BX0A	TX-BLU18CX0A	TX-BLU25BX0A	TX-BLU25CX0A	TX-BLU35BX0A	TX-BLU35CX0A
Page	220		221		222	

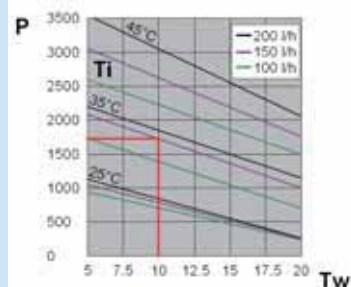
Cooling capacity (W)	4500		10000		15000		25000	
Dimensions	H	1148	1932	1932	1932	1932	270	270
	W	398	797	797	797	797	542	542
	D	163	206	206	206	206	400	400
Power Supply V/ph/Hz	230/1/50-60	115/1/50-60	230/1/50-60	400-440/2/50-60	230/1/50-60	400-440/2/50-60	230/1/50-60	115/1/50-60
Catalogue Number	TX-BLU45BX0A	TX-BLU45CX0A	TX-BLUA0BX0A	TX-BLUA0GX0A	TX-BLUA5BX0A	TX-BLUA5GX0A	TX-BIT25BX0A	TX-BIT25CX0A
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BLU18

Cooling Capacity 1800W



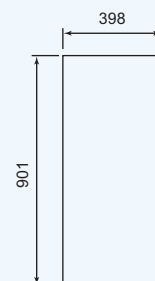
Performance Chart



P = Cooling capacity (W)
 Tw = Inlet water temperature (°C)
 Ti = Inside enclosure temperature (°C)

Characteristics	M.U.	TX-BLU18BX0A	TX-BLU18CX0A
Cooling capacity - W10A35	W	1750	1750
Water flow rate	l/h	150	150
Power supply	V ~ Hz	230 1~ 50-60	115 1~ 50-60
Width	mm	398	398
Height	mm	901	901
Depth	mm	137	137
Max. Current	A	0.36	0.76
Fuse T	A	2	2
Absorbed electric power - W10A35	W	75	77
Duty cycle	-	100%	100%
Electrical connection	-	Cable L = 3 m	Cable L = 3 m
Refrigerant	-	Water	Water
Hydraulic circuit max. pressure	bar	5	5
Air flow rate	m³/h	570	570
Internal temperature range	°C	20-60	20-60
External temperature range	°C	1-70	1-70
Protection level EN60529	-	IP55	IP55
Noise level	dB (A)	58	58
Weight	Kg	18	18
Conformity	-	CE	CE
Colour	-	RAL 7032 ripple	

Front Elevation



Side Elevation

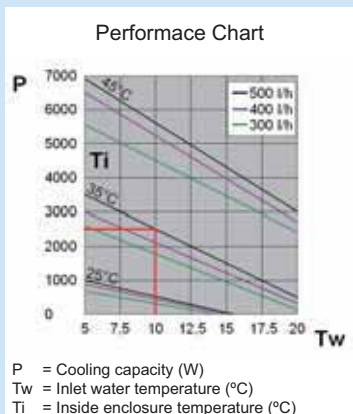


Accessories / Options

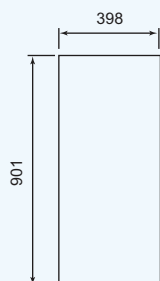
Thermostat 20-46°C, gas bulb 15A	TX-C16000002
Solenoid valve, NC	TX-C15000119
Level switch, NO	TX-C16000140

BLU25

Cooling Capacity 2500W



Front Elevation



Side Elevation



Characteristics	M.U.	TX-BLU25BX0A	TX-BLU25CX0A
Cooling capacity - W10A35	W	2500	2500
Water flow rate	l/h	500	500
Power supply	V ~ Hz	230 1~ 50-60	115 1~ 50-60
Width	mm	398	398
Height	mm	901	901
Depth	mm	137	137
Max. Current	A	0.33	0.74
Fuse T	A	2	2
Absorbed electric power - W10A35	W	80	82
Duty cycle	-	100%	100%
Electrical connection	-	Cable L = 3 m	Cable L = 3 m
Refrigerant	-	Water	Water
Hydraulic circuit max. pressure	bar	5	5
Air flow rate	m³/h	860	860
Internal temperature range	°C	20-60	20-60
External temperature range	°C	1-70	1-70
Protection level EN60529	-	IP55	IP55
Noise level	dB (A)	58	58
Weight	Kg	19	19
Conformity	-	CE	CE
Colour	-	RAL 7032 ripple	

Accessories / Options

Thermostat 20-46°C, gas bulb 15A	TX-C16000002
Solenoid valve, NC	TX-C15000119
Level switch, NO	TX-C16000140

Non-metallic

General Purpose

Stainless Steel

Mining & Hazardous

Switchboard Building

Datacoms

Climate Control

Technical Drawings

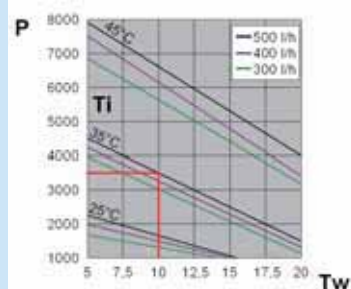
Enclosure Selection

BLU35

Cooling Capacity 3500W



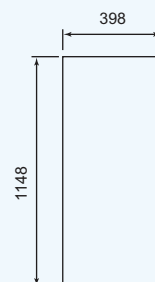
Performance Chart



P = Cooling capacity (W)
 Tw = Inlet water temperature (°C)
 Ti = Inside enclosure temperature (°C)

Characteristics	M.U.	TX-BLU35BX0A	TX-BLU35CX0A
Cooling capacity - W10A35	W	3500	3500
Water flow rate	l/h	500	500
Power supply	V ~ Hz	230 1~ 50-60	115 1~ 50-60
Width	mm	398	398
Height	mm	1148	1148
Depth	mm	163	163
Max. Current	A	0.55	1.12
Fuse T	A	2	2
Absorbed electric power - W10A35	W	130	135
Duty cycle	-	100%	100%
Electrical connection	-	Cable L = 3 m	Cable L = 3 m
Refrigerant	-	Water	Water
Hydraulic circuit max. pressure	bar	5	5
Air flow rate	m³/h	1050	1050
Internal temperature range	°C	20-60	20-60
External temperature range	°C	1-70	1-70
Protection level EN60529	-	IP55	IP55
Noise level	dB (A)	64	64
Weight	Kg	29	29
Conformity	-	CE	CE
Colour	-	RAL 7032 ripple	

Front Elevation



Side Elevation



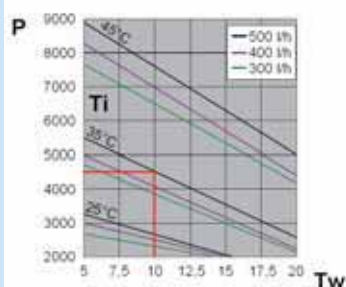
Accessories / Options

Thermostat 20-46°C, gas bulb 15A	TX-C16000002
Solenoid valve, NC	TX-C15000119
Level switch, NO	TX-C16000140

BLU45

Cooling Capacity 4500W

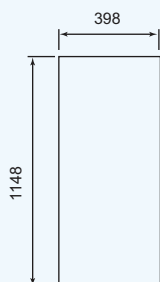
Performance Chart



P = Cooling capacity (W)
 Tw = Inlet water temperature (°C)
 Ti = Inside enclosure temperature (°C)



Front Elevation



Side Elevation



Characteristics	M.U.	TX-BLU45BX0A	TX-BLU45CX0A
Cooling capacity - W10A35	W	4500	4500
Water flow rate	l/h	500	500
Power supply	V ~ Hz	230 1~ 50-60	115 1~ 50-60
Width	mm	398	398
Height	mm	1148	1148
Depth	mm	163	163
Max. Current	A	0.71	1.5
Fuse T	A	2	4
Absorbed electric power - W10A35	W	160	170
Duty cycle	-	100%	100%
Electrical connection	-	Cable L = 3 m	Cable L = 3 m
Refrigerant	-	Water	Water
Hydraulic circuit max. pressure	bar	5	5
Air flow rate	m ³ /h	1450	1450
Internal temperature range	°C	20-60	20-60
External temperature range	°C	1-70	1-70
Protection level EN60529	-	IP55	IP55
Noise level	dB (A)	69	69
Weight	Kg	30	30
Conformity	-	CE	CE
Colour	-	RAL 7032 ripple	

Accessories / Options

Thermostat 20-46°C, gas bulb 15A	TX-C16000002
Solenoid valve, NC	TX-C15000119
Level switch, NO	TX-C16000140

Non-metallic

General Purpose

Stainless Steel

Mining & Hazardous

Switchboard Building

Datacoms

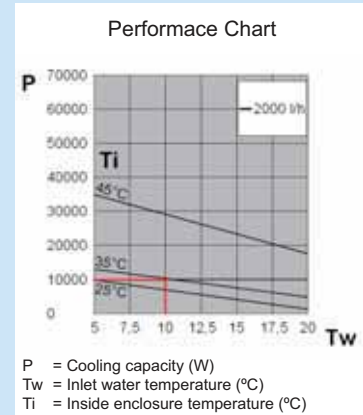
Climate Control

Technical Drawings

Enclosure Selection

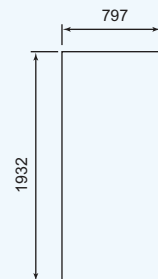
BLUA0

Cooling Capacity 10000W



Characteristics	M.U.	TX-BLUA0BX0A	TX-BLUA5GX0A
Cooling capacity - W10A35	W	10000	10000
Water flow rate	l/h	2000	2000
Power supply	V ~ Hz	230 1~ 50-60	400/440 2~ 50-60
Width	mm	797	797
Height	mm	1932	1932
Depth	mm	206	206
Max. Current	A	1.2	0.75
Fuse T	A	2	2
Absorbed electric power - W10A35	W	260	280
Duty cycle	-	100%	100%
Electrical connection	-	Cable L = 3 m	Cable L = 3 m
Refrigerant	-	Water	Water
Hydraulic circuit max. pressure	bar	8	8
Air flow rate	m³/h	2420	2420
Internal temperature range	°C	20-60	20-60
External temperature range	°C	1-70	1-70
Protection level EN60529	-	IP55	IP55
Noise level	dB (A)	70	70
Weight	Kg	90	90
Conformity	-	CE	CE
Colour	-	RAL 7032 ripple	

Front Elevation



Side Elevation

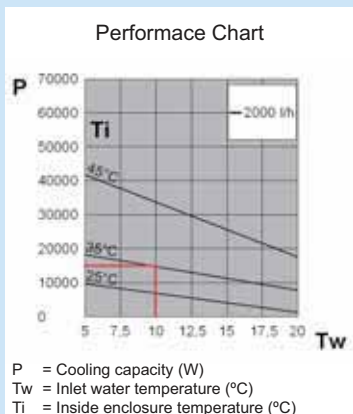


Accessories / Options

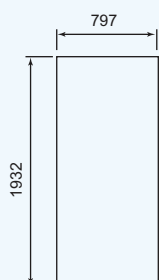
Thermostat 20-46°C, gas bulb 15A	TX-C16000002
Solenoid valve, NC	TX-C15000120
Level switch, NO	TX-C16000140

BLUA5

Cooling Capacity 15000 W



Front Elevation



Side Elevation



Characteristics	M.U.	TX-BLUA5BX0A	TX-BLUA5GX0A
Cooling capacity - W10A35	W	15000	15000
Water flow rate	l/h	2000	2000
Power supply	V ~ Hz	230 1~ 50-60	400/440 2~ 50-60
Width	mm	797	797
Height	mm	1932	1932
Depth	mm	206	206
Max. Current	A	1.4	0.9
Fuse T	A	4	2
Absorbed electric power - W10A35	W	320	340
Duty cycle	-	100%	100%
Electrical connection	-	Cable L = 3 m	Cable L = 3 m
Refrigerant	-	Water	Water
Hydraulic circuit max. pressure	bar	8	8
Air flow rate	m³/h	2900	2900
Internal temperature range	°C	20-60	20-60
External temperature range	°C	1-70	1-70
Protection level EN60529	-	IP55	IP55
Noise level	dB (A)	72	70
Weight	Kg	92	92
Conformity	-	CE	CE
Colour	-	RAL 7032 ripple	

Accessories / Options

Thermostat 20-46°C, gas bulb 15A	TX-C16000002
Solenoid valve, NC	TX-C15000120
Level switch, NO	TX-C16000140

Non-metallic

General Purpose

Stainless Steel

Mining & Hazardous

Switchboard Building

Datacoms

Climate Control

Technical Drawings

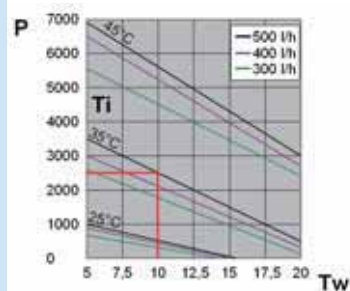
Enclosure Selection

BIT25

Cooling Capacity 2500W



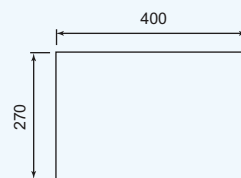
Performance Chart



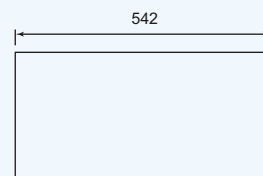
P = Cooling capacity (W)
 Tw = Inlet water temperature (°C)
 Ti = Inside enclosure temperature (°C)

Characteristics	M.U.	BIT25BX0A	BIT25CX0A
Cooling capacity - W10A35	W	2500	2500
Water flow rate	l/h	500	500
Power supply	V ~ Hz	230 1~ 50-60	115 1~ 50-60
Width	mm	400	400
Height	mm	270	270
Depth	mm	542	542
Max. Current	A	0.30	0.62
Fuse T	A	2	2
Absorbed electric power - W10A35	W	65	67
Duty cycle	-	100%	100%
Electrical connection	-	Cable L = 3 m	Cable L = 3 m
Refrigerant	-	Water	Water
Hydraulic circuit max. pressure	bar	5	5
Air flow rate	m³/h	750	750
Internal temperature range	°C	20-60	20-60
External temperature range	°C	1-70	1-70
Protection level EN60529	-	IP55	IP55
Noise level	dB (A)	58	58
Weight	Kg	19	19
Conformity	-	CE	CE
Colour	-	RAL 7032 ripple	

Front Elevation



Side Elevation



Accessories / Options

Thermostat 20-46°C, gas bulb 15A	C16000002
Solenoid valve, NC	C15000119
Level switch, NO	C16000140