

Description

The ST42 is a compact, close coupled chilled water cooling unit. Utilising electronically controlled fan and valve technology and V-coil allows the ST42 to deliver impressive cooling duties from a space saving package. The ST42 can provide nearly 60kW of sensible cooling while occupying the space of a single 42U cabinet.

Application

The ST42 is ideal for all IT room applications. It offers excellent duty-to-footprint ratios and, coupled with SemperTec's patented Rack Heat Capture containment system, offers class leading efficiency for cooling low, medium and high density data centres.



Air Handling Unit Specification

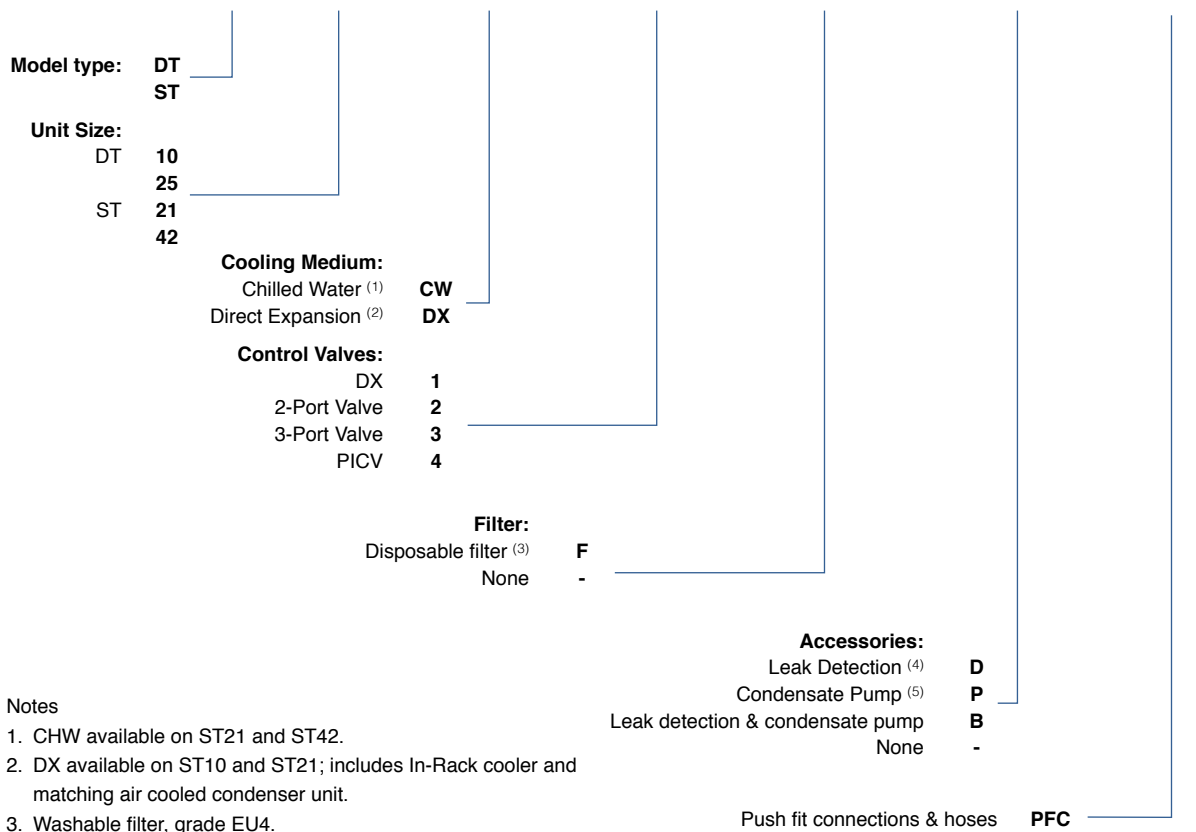
Fans		
Quantity	No.	5
Type	-	ebmR3G310 AN43-71
Nominal Air Flow	m ³ /h	11600
Nominal Fan Power	kW	0.74
Sound Level	dB(A)	69
Max Air Flow - Semi Recessed	m ³ /h	14500
Electrical Characteristics		
Power Supply	V/Ph/Hz	230/1/50
Configuration	-	Dual Power Supply with ATS Relay - IEC C20 Chassis Plugs
Max Fan Motor Current (each) - Semi Recessed	A	0.82
Max Fan Motor Power (each) - Semi Recessed	W	0.19
Max Absorbed Power - Semi Recessed	kW	0.95
Chilled Water Coil		
Rows	No.	3
Face Area	m ²	1.83
Tubes/Fins	-	Cu tubes/Al fins
Water Connections		
Chilled Water Supply and Return	BSPT	1.5"
Condensate Pump	mm (ID)	6
Drain	NPT	1/4" x 18
Weight and Dimensions		
Unit Packed Shipping Weight	kg	190
Unit Weight	kg	160
Unit Weight Filled With Water	kg	170
Unit Dimensions (H x W x D)	mm	1885 x 440 x 990
Unit Packed Dimensions (H x W x D)	mm	1900 x 500 x 1200

Nominal Performance Data

Entering Water Temp. (°C)		10	12	13	14	16
Return Air Temp. (°C)	CW Temp. Rise (°C)	Sensible Capacity (kW)				
35.00	5.5	68	63	60	57	52

Nomenclature

Example: **ST / 42 / CW / 2 / - / D / PFC**



Notes

1. CHW available on ST21 and ST42.
2. DX available on ST10 and ST21; includes In-Rack cooler and matching air cooled condenser unit.
3. Washable filter, grade EU4.
4. Leak detection standard on DX units, optional on CHW units.
5. Condensate pump standard on DX units, optional on CHW units.

Specification

For full specification and performance details please refer to Technical Data Manual and Installation & Operating Manual.