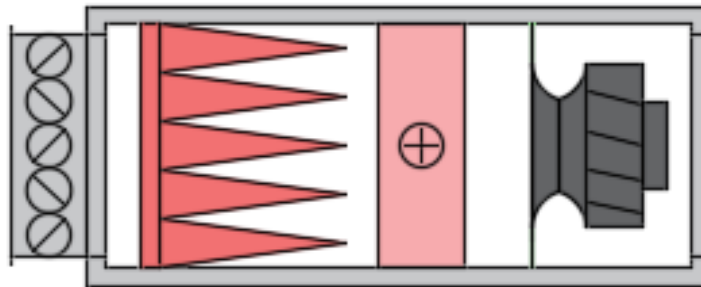


LBK-AT10000Bu



		Supply
Air flow	[m ³ /h]	10000
Static pressure	[Pa]	200
Temperature SUMMER	[°C]	26
Relative humidity SUMMER	[%]	50
Temperature WINTER	[°C]	-10
Relative humidity, WINTER	[%]	90
Unit SFP	[W/(m ³ /s)]	813.46
Heating type		None
Temperature, Heater outlet	[°C]	18
Required power	[kW]	96.49
Water temperature IN	[°C]	80
Water temperature OUT	[°C]	60
Glycol	[%]	0
Max heating capacity	[kW]	131.37

Heater

Galvanized steel casing, copper tubes and aluminum fins, copper pipe manifold.

Temperature, Heater inlet	[°C]	-10	Water pressure	[kPa]	3
Temperature, Heater outlet	[°C]	18	Water flow	[l/s]	1.14
Relative humidity, Heater inlet	[%]	90	Water temperature IN	[°C]	80
Relative humidity, Heater outlet	[%]	11.33	Water temperature OUT	[°C]	60
Required power	[kW]	96.49	Glycol	[%]	0
Max heating capacity	[kW]	131.37			

Fans, winter

EC fan, backward curved impeller

Rated power = 2600W(3,54Hp)

Phase/voltage [50/60Hz/VAC] ~3, 380/480

Insulation class B

Motor protection class IP 54

Fan, winter		
RPM	[1/min]	1631.19
Electric power consumption, Pe	[W]	2259.61
Current, I	[A]	3.5
Static fan pressure , Psf	[Pa]	311.05
Static fan efficiency η es	[%]	38.24
Airflow at operating point	[m ³ /h]	10000
Power rated	[W]	2600
Current rated	[A]	4
Sound pressure level to environment @3m	[dB(A)]	44.06
Number of fans		1

SFP, winter		
SFP	[W/(m ³ /s)]	813.46

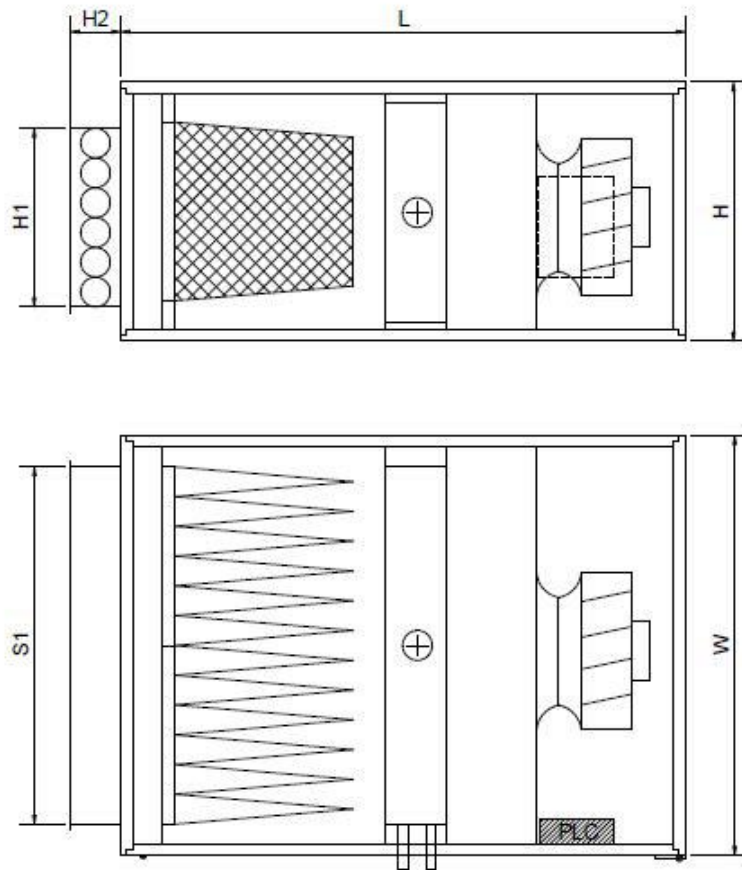
Fans sound power, winter Lw, (dB)

Sound power level	Gen.	Octave frequency bands [Hz]							
		63	125	250	500	1000	2000	4000	8000
Lwa (to inlet)	83	52	62	73	78	77	76	73	68
Lwa (to outlet)	90	54	65	75	83	86	83	78	70
Lwa (to environment)	65	47	56	63	55	53	50	45	38

Casing

Double skin frameless casing with 40 mm mineral wool 90 kg/m³; non-flammable; outer skin: zinc-aluminum; inner skin: zinc-aluminum; EN1886 class: D1, T3, TB3; corrosion resistance according to ISO 12944: class C4.
 Insulation class B

L	L2	L3	W	H	H1	S1	H2
1890	2350	2750	1410	870	600	1200	170



Controls

Control system features functions activated based on the devices installed on the air handling unit:

Coils management: electric heater, water cooler, direct expansion, cooler/heater coil;

Fans management: 3 speed setup, air pressure control, airflow control;

Temperature and/or humidity control;

Automatic summer/winter (cooling/heating) changeover;

Operation in comfort, precomfort or economy mode;

Selection of up to four daily time bands, with settings for each operating mode;

Holiday and special day function, with reduced set point;

Air quality control with optional CO₂/IAQ probe;

Priority to temperature or humidity control, by room/supply/extract sensors

Protection: antifreeze, overheating, dirty filters, fire, etc.

Parameter settings divided by level, user, installer or manufacturer, with password-protected access;

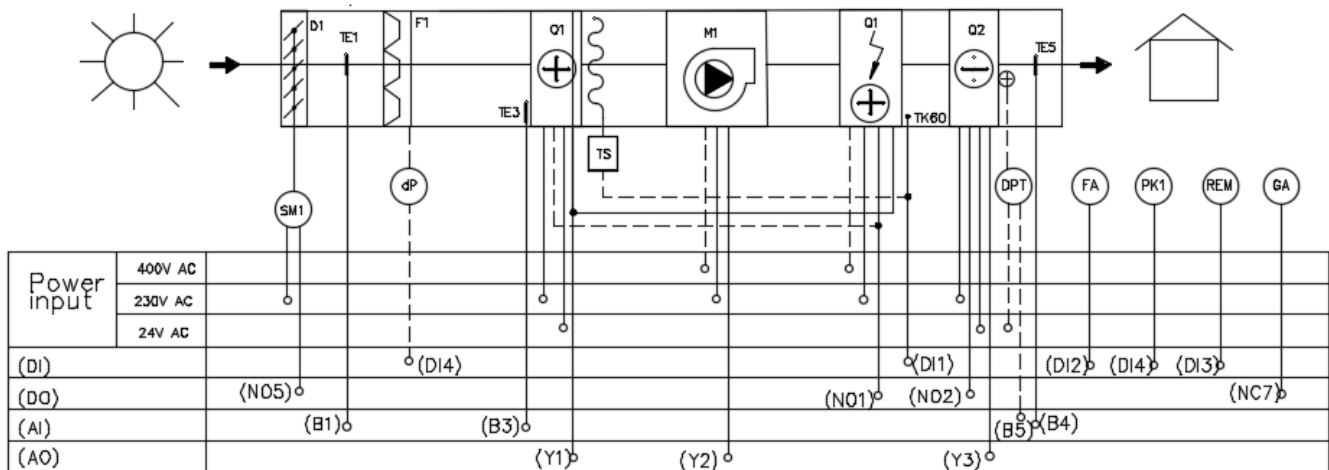
Manual functioning mode;

Supervisor protocol: Modbus slave build-in, Bacnet build-in;

Freecooling and freeheating;

Pumps management, overload alarms and anti-blocking for each pump;

WEB-interface via integrated Ethernet port



ERP

Trade mark		
Model		Air handler 6000
Declared typology		NRVU UVU
Type of drive installed		Integrated MSD
Type of heat recovery system		None
Thermal efficiency of heat recovery	[%]	0
Supply flow rate	[m ³ /s]	2.78
Effective electric power input	[W]	2259.61
SFPint	[W/(m ³ /s)]	308.03
Face velocity at design flow rate	[m/s]	3.7
External pressure	[Pa]	200
Internal pressure drop of ventilation components	[Pa]	58.9
Static efficiency of fans	[%]	38.24
Maximum leakage rates	[%]	2.7
Maximum leakage rates	[%]	2.7
Performance of filters		B
Visual filter warning		Visual filter warning
Sound power level	[db]	64.6
Internet address		http://blaubergventilatoren.de/

Accessories

SKU	Title	Quantity
Belimo R3025-10-B2+LR24A-SR	Three-way motorized ball valve	1

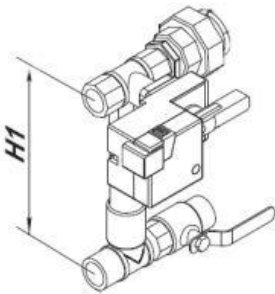
Three-way valves are designed to regulate water flows in the piping circuits of heating / cooling heat exchangers.

Dimensions [mm]

Belimo	H1
R3025+LR24A-SR	240

Technical data

Three-way valve with electric actuator	Belimo R3025+LR24A-SR
Connection/diameter	Tread/DN32
Max capacity [m ³ /h]	6.8
Temperature range [° C]	-10...+110
Pipe diameter	1 ¼"
Power[W]/Voltage[V]	1~230



DTV 500	Filter pressure switch	1
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The pressure differential switch is used to determine air rarefaction or air (non-aggressive gases) pressure drop. It is used in ventilation systems to determine air filter clogging degree or belt breaking in centrifugal fans, etc.



EVA 1200x600	Flexible duct connection	1
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Flexible connectors are flanges interconnected by antivibration material. The inserts are made of galvanized steel and polyethylene tape reinforced with polyamide textile cloth

Dimensions [mm]

Size	L	H
EVA 1200x600	1200	600

TH-tune (S30)	User control panel (controller S30)	1
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Basic user control panel

Main functions:

- unit ON/OFF
- Three speeds (eco / pre-comfort / comfort mode)
- Temperature setting
- Weekly schedule
- Alarm indication/resetting

