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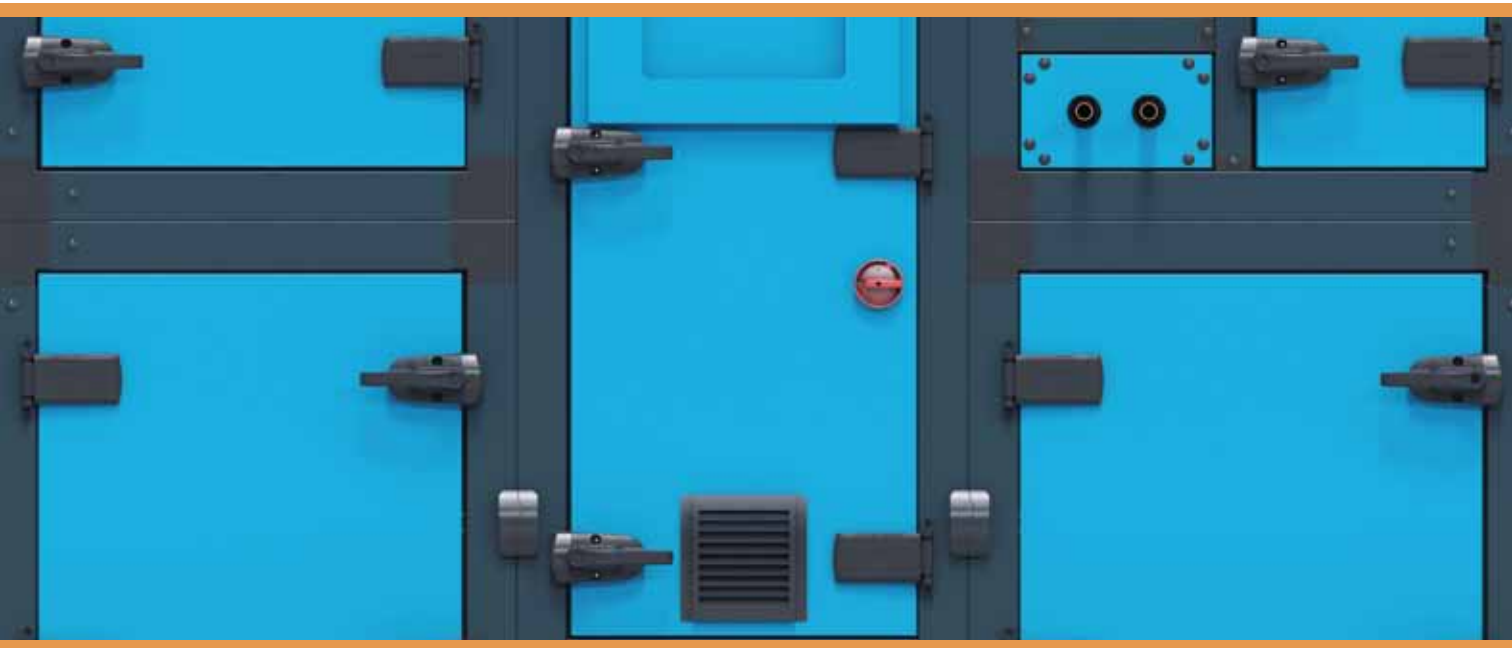

multiCENT Compact


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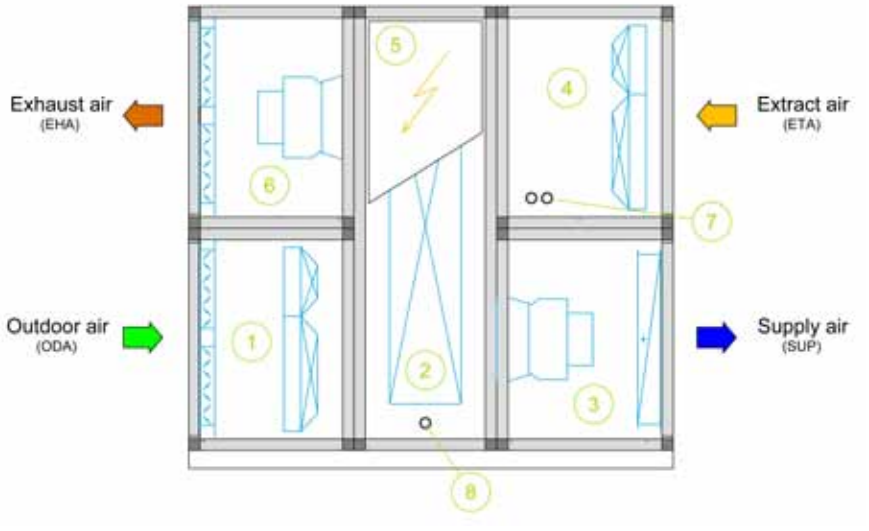
multiCENT Compact

Compact Air Handling Units

- MODERN
- COMPACT
- HIGHLY EFFICIENT
- 50 mm PANEL THERMAL BREAK CASING
- T2/TB2
- 80 mm BASE FRAME

BASIC DESIGN, FEATURES AND COMPONENTS



1. Outdoor air inlet section with shut off damper and filter
2. Heat recovery section (heat wheel)
3. Supply air outlet section with fan and heat exchanger coil
4. Extract air inlet section with filter
5. Electrical cabinet with AHU controller
6. Exhaust air outlet section with fan and shut off damper
7. Heat exchanger coil connection
8. Electrical supply

NOMENCLATURE

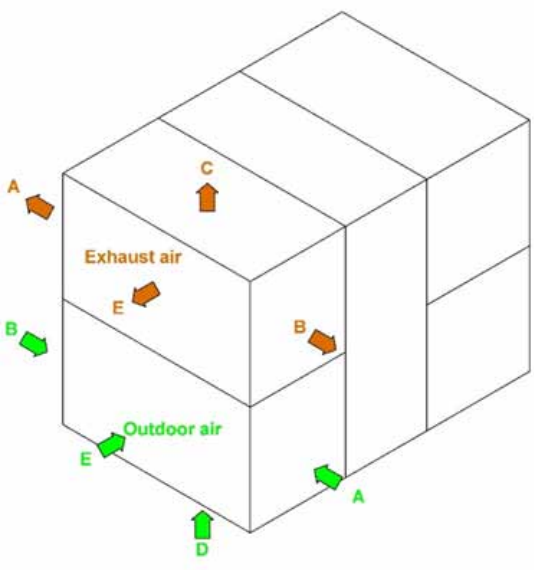
1	2	3	4	5	6	7	8	9	10	11
TW	**C78**	**B**	**IW**	**M**	**EEEE**	**F7**	**M6**	**K**	**H1**	**K1**

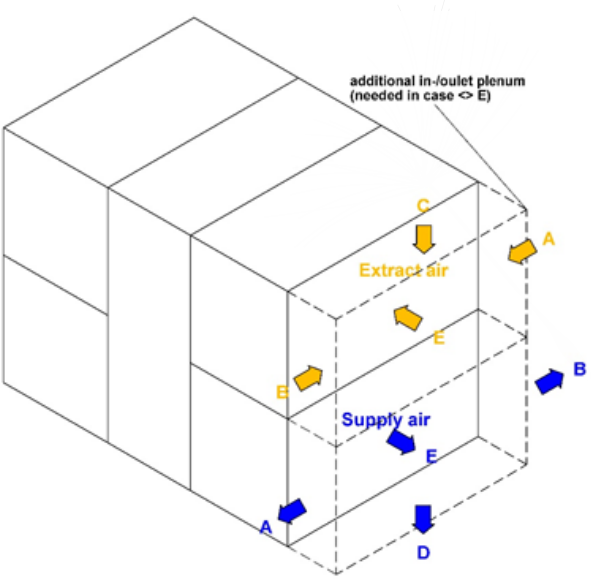
1	AHU Series	
2	Unit size	x 100 m³/h = nominal air flow rate Example: C11 = 1100 m³/h
3	Outer panel finish	B: blue similar RAL 5012 V: galv. Steel S: special colour
4	Installation	IW: indoor installation DW: outdoor installation
5	M	Controls included
6	Air in/outlet configuration	1st character: outdoor inlet opening position Possible options: A, B, D, E
		2nd character: supply air outlet opening position Possible options: A, B, D, E
		3rd character: extract air inlet opening position Possible options: A, B, C, E
		4th character: exhaust air outlet opening position Possible options: A, B, C, E
		A = in air direction right B = in air direction left C = on top D = on bottom E = full opening straight (see page 4)

7	Filter class in supply	M6: ePM10 70% (M6) F7: ePM1 55% (F7) F8: ePM1 65% (F8) F9: ePM1 80% (F9)
8	Filter class in extract	M6: ePM10 70% (M6) F7: ePM1 55% (F7) F8: ePM1 65% (F8) F9: ePM1 80% (F9)
9	Heat wheel type	K: condensation type S: sorption type
10	Supply heat exchanger	H1: LTHW heating coil HX2: condenser R407C HX3: condenser R134A HX8: condenser R410A HX17: condenser R513A K1: CHW cooling coil KX2: DX evaporator R407C KX3: DX evaporator R134A KX8: DX evaporator R410A KX17: DX evaporator R513A
11	Additional components	Coils see position 10 S1: sound attenuator in supply S2: sound attenuator in extract S12: sound attenuator in supply + extract

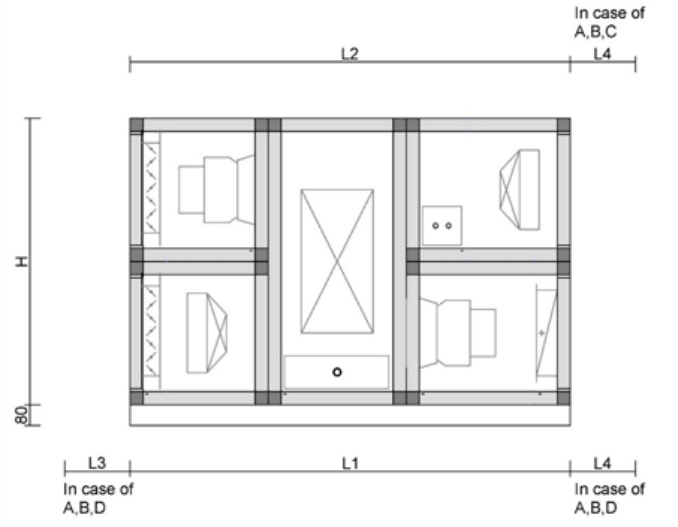
AIR INLET AND OUTLET OPTIONS

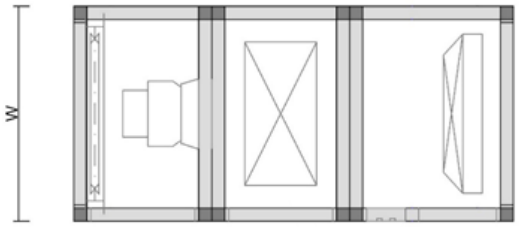
A = in air direction right
B = in air direction left
C = on top
D = on bottom
E = full opening straight





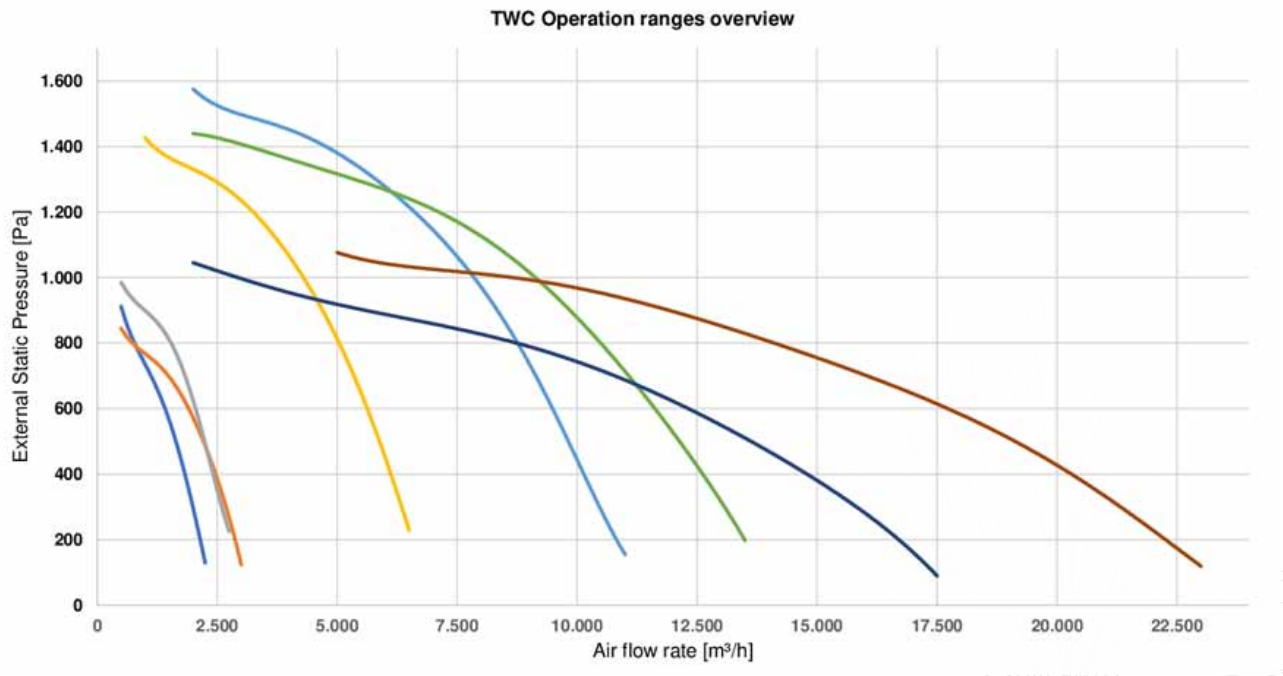
DIMENSION OVERVIEW





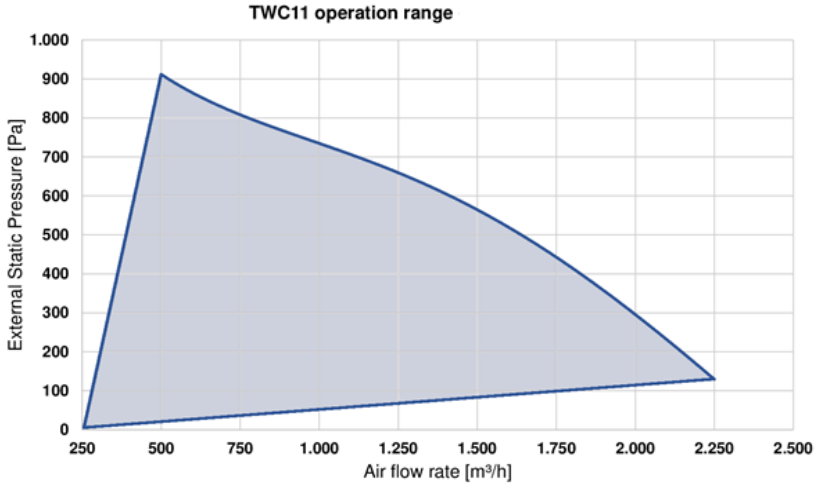
UNIT	H	W	L1	L2	L3	L4
TWC11	1100	825	1690	1690	250	380
TWC20	1550	1080	1740	1740	250	430
TWC20F	1200	1385	1740	1740	250	380
TWC38	1550	1335	1990	1990	200	530
TWC60	1550	1585	2140	2140	350	630
TWC78	1960	1995	2140	2140	530	630
TWC122	2160	2300	2390	2390	600	780
TWC160	2570	2410	2640	2640	450	880
TWC160-EEEA/B	2570	2410	2740	2740	0	880

TECHNICAL DATA: OPERATION RANGES OVERVIEW



- TWC11
- TWC20
- TWC20F
- TWC38
- TWC60
- TWC78
- TWC122
- TWC160

TWC11



		Supply Side / extract side
Air flow rate	[m³/h]	1100 / 1100
External static pressure	[Pa]	250 / 250
Heating coil capacity[1]	[kW]	5.0
Cooling coil capacity[2]	[kW]	6.6
Electric power consumption	[kW]	0.8
Heat recovery thermal efficiency	[%]	78.1
SFPv[3]	[W/(m³*s)]	2.04
Power supply	[V / Hz]	1x230 / 50

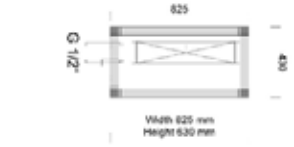
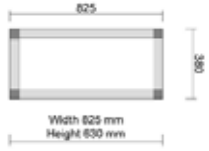
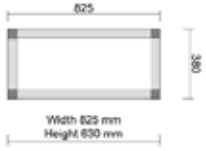
Heating coil connection		½" male
Cooling coil connection		½" male
Height (EEEE configuration)	[mm]	1100
Width (EEEE configuration)	[mm]	825
Length (EEEE configuration)	[mm]	1690
Weight (EEEE configuration)	[kg]	ca. 415

[1] Heating coil version; Air on/off 12 °C / 25.5 °C at LTHW 70 °C / 50 °C

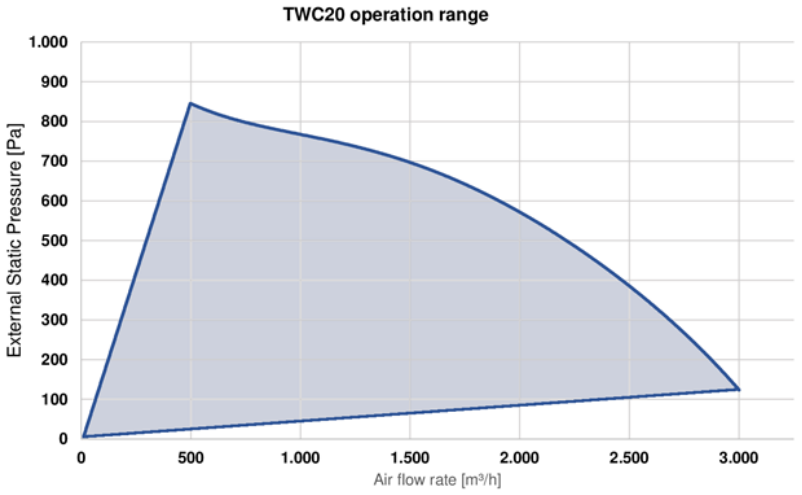
[2] Cooling coil version; Air on/off 26 °C @ 76% RH / 18 °C at CHW 6 °C / 12 °C

[3] Acc. EN 13779

ACCESSORIES TWC11

	DESCRIPTION	MATCHCODE (ORDER Nº.) (ART. Nº.)
	Additional cooling coil section (for Heating coil version).	K1: C11-WTK-CK1 KX2: C11-WTK-CK22 KX3: C11-WTK-CK23 KX8: C11-WTK-CK28 KX17: C11-WTK-CK217
	Additional heating coil section (for cooling coil version).	H1: C11-WTH-CH1 HX2: C11-WTH-CH22 HX3: C11-WTH-CH23 HX8: C11-WTH-CH28 HX17: C11-WTH-CH217
	Supply air discharge plenum (2). In air direction right (A) In air direction left (B) In air direction bottom (D)	C11-A-2A C11-A-2B C11-A-2D
	Extract air plenum (3). In air direction right (A) In air direction left (B) In air direction top (C)	C11-A-3A C11-A-3B C11-A-3C
	Leonis remote room sensor (Modbus). Simple AHU operation device for main controller functions. W x H = 80 x 100 mm	MS20-LEONISS
	PING Gateway for external communication Modbus BacNet	MS20-PINGMB MS20-PINGBN

TWC20



		Supply Side / extract side
Air flow rate	[m³/h]	2000 / 2000
External static pressure	[Pa]	250 / 250
Heating coil capacity[1]	[kW]	10.7
Cooling coil capacity[2]	[kW]	13.3
Electric power consumption	[kW]	1.1
Heat recovery thermal efficiency	[%]	81
SFPv[3]	[W/(m³*s)]	1.46
Power supply	[V / Hz]	1x230 / 50

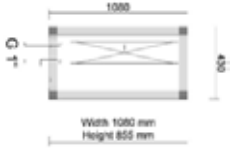
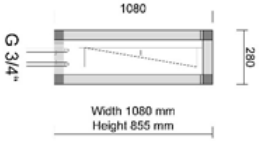
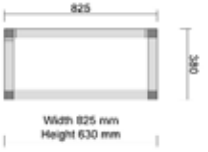
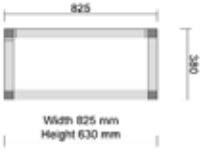
Heating coil connection		¾" male
Cooling coil connection		1" male
Height (EEEE configuration)	[mm]	1630
Width (EEEE configuration)	[mm]	1080
Length (EEEE configuration)	[mm]	1740
Weight (EEEE configuration)	[kg]	ca. 570

[1]Heating coil version; Air on/off 12°C / 28°C at LTHW 70°C / 50°C

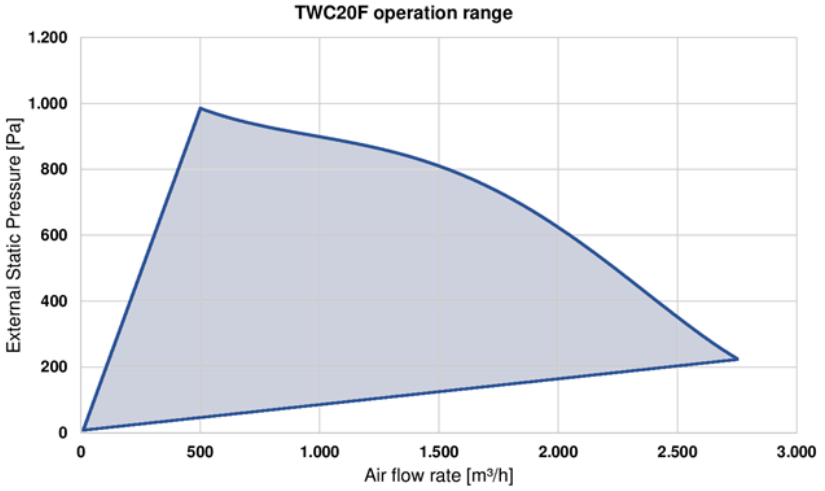
[2]Cooling coil version; Air on/off 26°C@76% RH / 17.2°C at CHW 6°C/12°C

[3]Acc. EN 13779

ACCESSORIES TWC20

	DESCRIPTION	MATCHCODE (ORDER Nº.) (ART. Nº.)
	Additional cooling coil section (for Heating coil version).	K1: C20-WTK-CK1 KX2: C20-WTK-CK22 KX3: C20-WTK-CK23 KX8: C20-WTK-CK28 KX17: C20-WTK-CK217
	Additional heating coil section (for cooling coil version).	H1: C20-WTH-CH1 HX2: C20-WTH-CH22 HX3: C20-WTH-CH23 HX8: C20-WTH-CH28 HX17: C20-WTH-CH217
	Supply air discharge plenum (2). In air direction right (A) In air direction left (B) In air direction bottom (D)	C20-A-2A C20-A-2B C20-A-2D
	Extract air plenum (3). In air direction right (A) In air direction left (B) In air direction top (C)	C20-A-3A C20-A-3B C20-A-3C
	Leonis remote room sensor (Modbus). Simple AHU operation device for main controller functions. WxH = 80 x 100 mm	MS20-LEONISS
	PING Gateway for external communication Modbus BacNet	MS20-PINGMB MS20-PINGBN

TWC20F



		Supply Side / extract side
Air flow rate	[m³/h]	2000 / 2000
External static pressure	[Pa]	250 / 250
Heating coil capacity[1]	[kW]	10.8
Cooling coil capacity[2]	[kW]	12.8
Electric power consumption	[kW]	1.1
Heat recovery thermal efficiency	[%]	82
SFPv[3]	[W/(m³*s)]	1.55
Power supply	[V / Hz]	1x230 / 50

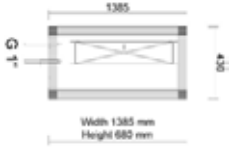
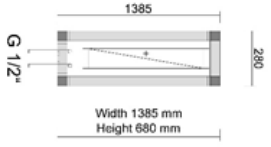
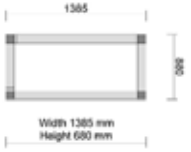
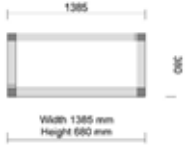
Heating coil connection		½" male
Cooling coil connection		1" male
Height (EEEE configuration)	[mm]	1280
Width (EEEE configuration)	[mm]	1385
Length (EEEE configuration)	[mm]	1740
Weight (EEEE configuration)	[kg]	ca. 590

[1]Heating coil version; Air on/off 12°C / 28°C at LTHW 70°C / 50°C

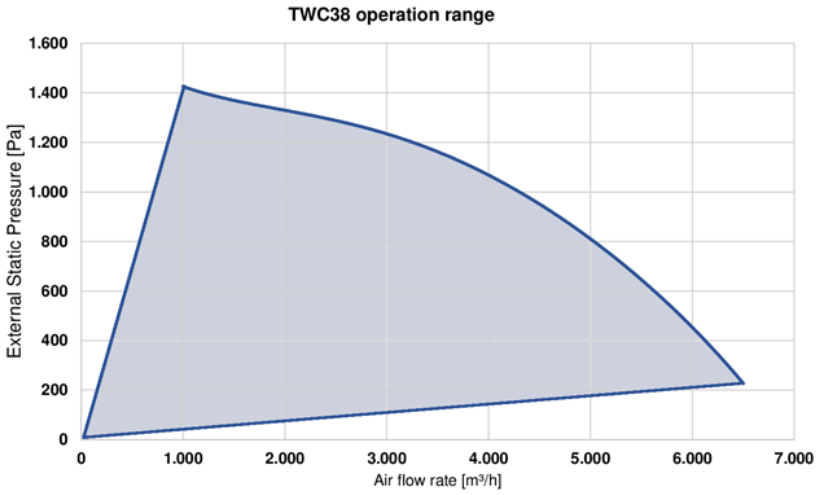
[2]Cooling coil version; Air on/off 26°C@76% RH / 17.5°C at CHW 6°C/12°C

[3]Acc. EN 13779

ACCESSORIES TWC20F

	DESCRIPTION	MATCHCODE (ORDER Nº.) (ART. Nº.)
	Additional cooling coil section (for Heating coil version).	K1: C20F-WTK-CK1 KX2: C20F-WTK-CK22 KX3: C20F-WTK-CK23 KX8: C20F-WTK-CK28 KX17: C20F-WTK-CK217
	Additional heating coil section (for cooling coil version).	H1: C20F-WTH-CH1 HX2: C20F-WTH-CH22 HX3: C20F-WTH-CH23 HX8: C20F-WTH-CH28 HX17: C20F-WTH-CH217
	Supply air discharge plenum (2). In air direction right (A) In air direction left (B) In air direction bottom (D)	C20F-A-2A C20F-A-2B C20F-A-2D
	Extract air plenum (3). In air direction right (A) In air direction left (B) In air direction top (C)	C20F-A-3A C20F-A-3B C20F-A-3C
	Leonis remote room sensor (Modbus). Simple AHU operation device for main controller functions. WxH = 80 x 100 mm	MS20-LEONISS
	PING Gateway for external communication Modbus BacNet	MS20-PINGMB MS20-PINGBN

TWC38



		Supply Side / extract side
Air flow rate	[m³/h]	3800 / 3800
External static pressure	[Pa]	250 / 250
Heating coil capacity[1]	[kW]	17.3
Cooling coil capacity[2]	[kW]	21.0
Electric power consumption	[kW]	1.9
Heat recovery thermal efficiency	[%]	80.4
SFPv[3]	[W/(m³*s)]	1.57
Power supply	[V / Hz]	3x400 / 50

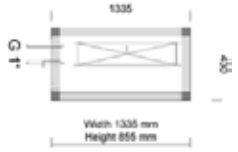
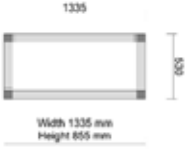
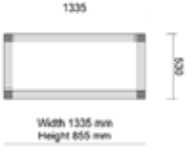
Heating coil connection		¾" male
Cooling coil connection		1" male
Height (EEEE configuration)	[mm]	1630
Width (EEEE configuration)	[mm]	1335
Length (EEEE configuration)	[mm]	1990
Weight (EEEE configuration)	[kg]	ca. 730

[1]Heating coil version; Air on/off 12°C / 25.5°C at LTHW 70°C / 50°C

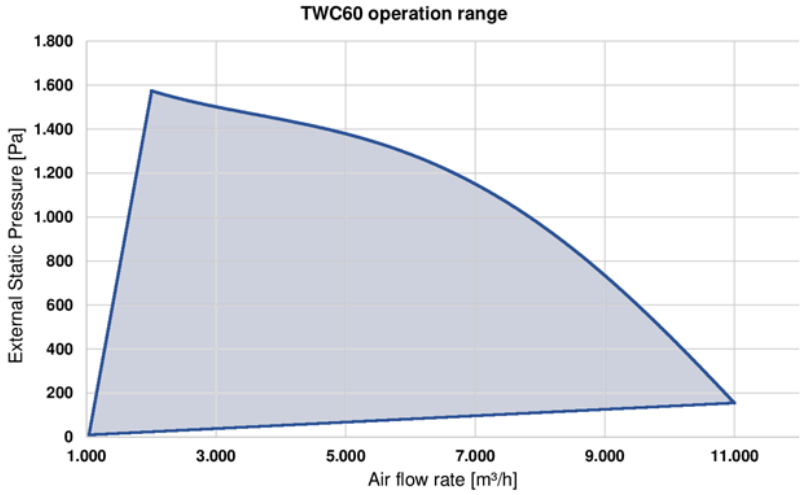
[2]Cooling coil version; Air on/off 26°C@76% RH / 18.5°C at CHW 6°C/12°C

[3]Acc. EN 13779

ACCESSORIES TWC38

	DESCRIPTION	MATCHCODE (ORDER Nº.) (ART. Nº.)
	Additional cooling coil section (for Heating coil version).	K1: C38-WTK-CK1 KX2: C38-WTK-CK22 KX3: C38-WTK-CK23 KX8: C38-WTK-CK28 KX17: C38-WTK-CK217
	Additional heating coil section (for cooling coil version).	H1: C38-WTH-CH1 HX2: C38-WTH-CH22 HX3: C38-WTH-CH23 HX8: C38-WTH-CH28 HX17: C38-WTH-CH217
	Supply air discharge plenum (2). In air direction right (A) In air direction left (B) In air direction bottom (D)	C38-A-2A C38-A-2B C38-A-2D
	Extract air plenum (3). In air direction right (A) In air direction left (B) In air direction top (C)	C38-A-3A C38-A-3B C38-A-3C
	Leonis remote room sensor (Modbus). Simple AHU operation device for main controller functions. WxH = 80 x 100 mm	MS20-LEONISS
	PING Gateway for external communication Modbus BacNet	MS20-PINGMB MS20-PINGBN

TWC60



		Supply Side / extract side
Air flow rate	[m³/h]	6000 / 6000
External static pressure	[Pa]	250 / 250
Heating coil capacity[1]	[kW]	28.3
Cooling coil capacity[2]	[kW]	27.7
Electric power consumption	[kW]	3.3
Heat recovery thermal efficiency	[%]	80
SFPv[3]	[W/(m³*s)]	1.69
Power supply	[V / Hz]	3x400 / 50

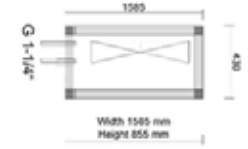
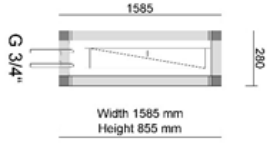
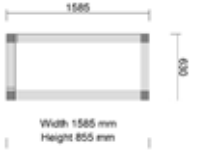
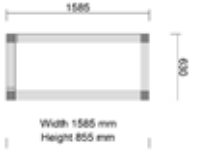
Heating coil connection		¾" male
Cooling coil connection		1-1/4" male
Height (EEEE configuration)	[mm]	1630
Width (EEEE configuration)	[mm]	1585
Length (EEEE configuration)	[mm]	2140
Weight (EEEE configuration)	[kg]	ca. 910

[1]Heating coil version; Air on/off 12°C / 26°C at LTHW 70°C / 50°C

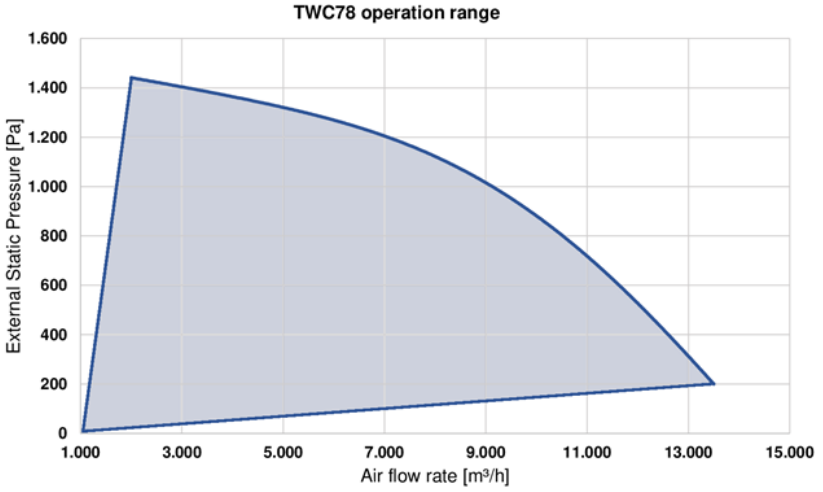
[2]Cooling coil version; Air on/off 26°C@76% RH / 19.5°C at CHW 6°C/12°C

[3]Acc. EN 13779

ACCESSORIES TWC60

	DESCRIPTION	MATCHCODE (ORDER Nº.) (ART. Nº.)
	Additional cooling coil section (for Heating coil version).	K1: C60-WTK-CK1 KX2: C60-WTK-CK22 KX3: C60-WTK-CK23 KX8: C60-WTK-CK28 KX17: C60-WTK-CK217
	Additional heating coil section (for cooling coil version).	H1: C60-WTH-CH1 HX2: C60-WTH-CH22 HX3: C60-WTH-CH23 HX8: C60-WTH-CH28 HX17: C60-WTH-CH217
	Supply air discharge plenum (2). In air direction right (A) In air direction left (B) In air direction bottom (D)	C60-A-2A C60-A-2B C60-A-2D
	Extract air plenum (3). In air direction right (A) In air direction left (B) In air direction top (C)	C60-A-3A C60-A-3B C60-A-3C
	Leonis remote room sensor (Modbus). Simple AHU operation device for main controller functions. WxH = 80 x 100 mm	MS20-LEONISS
	PING Gateway for external communication Modbus BacNet	MS20-PINGMB MS20-PINGBN

TWC78



		Supply Side / extract side
Air flow rate	[m³/h]	7800 / 7800
External static pressure	[Pa]	250 / 250
Heating coil capacity[1]	[kW]	36.8
Cooling coil capacity[2]	[kW]	43.3
Electric power consumption	[kW]	3.9
Heat recovery thermal efficiency	[%]	82.5
SFPv[3]	[W/(m³*s)]	1.47
Power supply	[V / Hz]	3x400 / 50

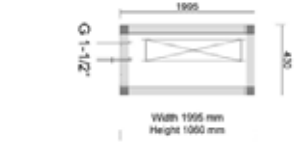
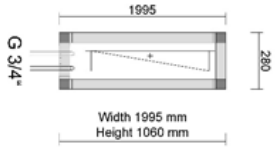
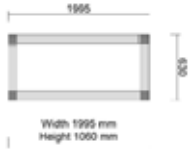
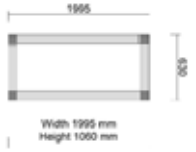
Heating coil connection		¾" male
Cooling coil connection		1-1/2" male
Height (EEEE configuration)	[mm]	2040
Width (EEEE configuration)	[mm]	1995
Length (EEEE configuration)	[mm]	2140
Weight (EEEE configuration)	[kg]	ca. 1215

[1]Heating coil version; Air on/off 12°C / 26°C at LTHW 70°C / 50°C

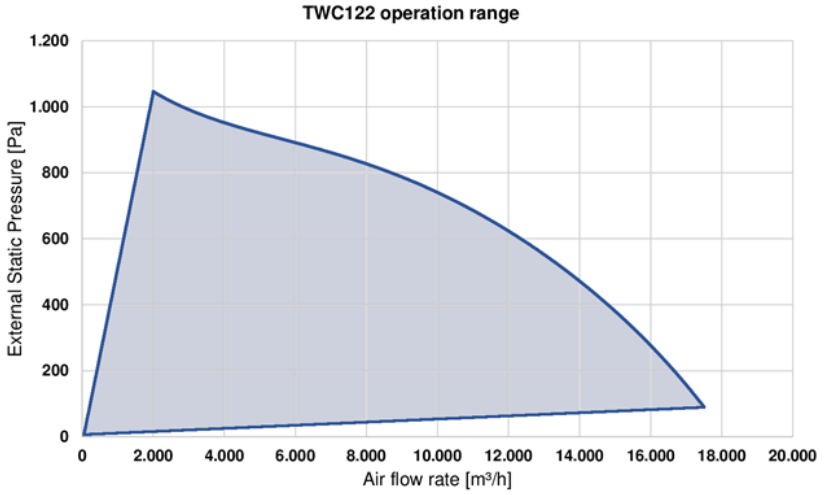
[2]Cooling coil version; Air on/off 26°C@76% RH / 18.5°C at CHW 6°C/12°C

[3]Acc. EN 13779

ACCESSORIES TWC78

	DESCRIPTION	MATCHCODE (ORDER Nº.) (ART. Nº.)
	Additional cooling coil section (for Heating coil version).	K1: C78-WTK-CK1 KX2: C78-WTK-CK22 KX3: C78-WTK-CK23 KX8: C78-WTK-CK28 KX17: C78-WTK-CK217
	Additional heating coil section (for cooling coil version).	H1: C78-WTH-CH1 HX2: C78-WTH-CH22 HX3: C78-WTH-CH23 HX8: C78-WTH-CH28 HX17: C78-WTH-CH217
	Supply air discharge plenum (2). In air direction right (A) In air direction left (B) In air direction bottom (D)	C78-A-2A C78-A-2B C78-A-2D
	Extract air plenum (3). In air direction right (A) In air direction left (B) In air direction top (C)	C78-A-3A C78-A-3B C78-A-3C
	Leonis remote room sensor (Modbus). Simple AHU operation device for main controller functions. WxH = 80 x 100 mm	MS20-LEONISS
	PING Gateway for external communication Modbus BacNet	MS20-PINGMB MS20-PINGBN

TWC122



		Supply Side / extract side
Air flow rate	[m³/h]	12200 / 12200
External static pressure	[Pa]	250 / 250
Heating coil capacity[1]	[kW]	53.4
Cooling coil capacity[2]	[kW]	61.9
Electric power consumption	[kW]	6.3
Heat recovery thermal efficiency	[%]	81.6
SFPv[3]	[W/(m³*s)]	1.52
Power supply	[V / Hz]	3x400 / 50

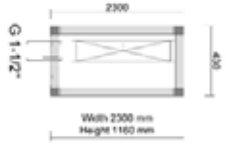
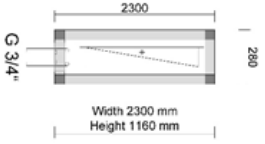
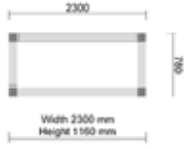
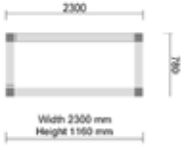
Heating coil connection		¾" male
Cooling coil connection		1-1/2" male
Height (EEEE configuration)	[mm]	2240
Width (EEEE configuration)	[mm]	2300
Length (EEEE configuration)	[mm]	2390
Weight (EEEE configuration)	[kg]	ca. 1510

[1]Heating coil version; Air on/off 12°C / 25°C at LTHW 70°C / 50°C

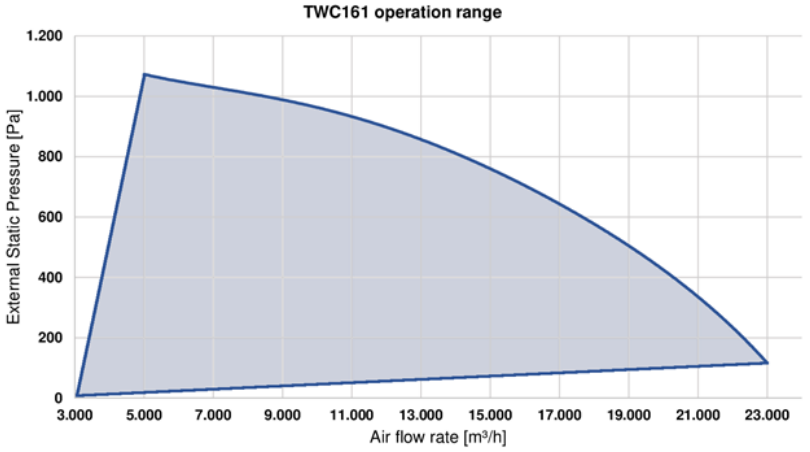
[2]Cooling coil version; Air on/off 26°C@76% RH / 19°C at CHW 6°C/12°C

[3]Acc. EN 13779

ACCESSORIES TWC122

	DESCRIPTION	MATCHCODE (ORDER Nº.) (ART. Nº.)
	Additional cooling coil section (for Heating coil version).	K1: C122-WTK-CK1 KX2: C122-WTK-CK22 KX3: C122-WTK-CK23 KX8: C122-WTK-CK28 KX17: C122-WTK-CK217
	Additional heating coil section (for cooling coil version).	H1: C122-WTH-CH1 HX2: C122-WTH-CH22 HX3: C122-WTH-CH23 HX8: C122-WTH-CH28 HX17: C122-WTH-CH217
	Supply air discharge plenum (2). In air direction right (A) In air direction left (B) In air direction bottom (D)	C122-A-2A C122-A-2B C122-A-2D
	Extract air plenum (3). In air direction right (A) In air direction left (B) In air direction top (C)	C122-A-3A C122-A-3B C122-A-3C
	Leonis remote room sensor (Modbus). Simple AHU operation device for main controller functions. WxH = 80 x 100 mm	MS20-LEONISS
	PING Gateway for external communication Modbus BacNet	MS20-PINGMB MS20-PINGBN

TWC160



		Supply Side / extract side
Air flow rate	[m³/h]	16000 / 16000
External static pressure	[Pa]	250 / 250
Heating coil capacity[1]	[kW]	68.9
Cooling coil capacity[2]	[kW]	81.2
Electric power consumption	[kW]	8.3
Heat recovery thermal efficiency	[%]	81
SFPv[3]	[W/(m³*s)]	1.56
Power supply	[V / Hz]	3x400 / 50

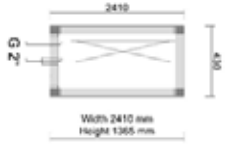
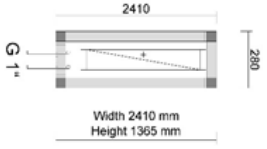
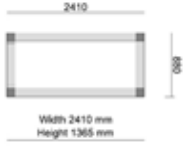
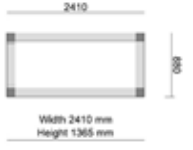
Heating coil connection		1" male
Cooling coil connection		2" male
Height (EEEE configuration)	[mm]	2650
Width (EEEE configuration)	[mm]	2410
Length (EEEE configuration)	[mm]	2640
Weight (EEEE configuration)	[kg]	ca. 1820

[1]Heating coil version; Air on/off 12°C / 24.8°C at LTHW 70°C / 50°C

[2]Cooling coil version; Air on/off 26°C@76% RH / 19°C at CHW 6°C/12°C

[3]Acc. EN 13779

ACCESSORIES TWC160

	DESCRIPTION	MATCHCODE (ORDER Nº.) (ART. Nº.)
	Additional cooling coil section (for Heating coil version).	K1: C160-WTK-CK1 KX2: C160-WTK-CK22 KX3: C160-WTK-CK23 KX8: C160-WTK-CK28 KX17: C160-WTK-CK217
	Additional heating coil section (for cooling coil version).	H1: C160-WTH-CH1 HX2: C160-WTH-CH22 HX3: C160-WTH-CH23 HX8: C160-WTH-CH28 HX17: C160-WTH-CH217
	Supply air discharge plenum (2). In air direction right (A) In air direction left (B) In air direction bottom (D)	C160-A-2A C160-A-2B C160-A-2D
	Extract air plenum (3). In air direction right (A) In air direction left (B) In air direction top (C)	C160-A-3A C160-A-3B C160-A-3C
	Leonis remote room sensor (Modbus). Simple AHU operation device for main controller functions. WxH = 80 x 100 mm	MS20-LEONISS
	PING Gateway for external communication Modbus BacNet	MS20-PINGMB MS20-PINGBN

Let's talk
about
energy
saving

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