

Condensates tray



Hydraulic connections detail



EC fans



Detail from the terminals box in fancoil units



Certification Eurovent

Fancoil Units

TFCU Series



Compact and Modular Air Handling Fancoil Unit

Modular fancoil unit with a compact design for air handling, to be installed horizontally in false ceilings with 2 or 4-tube systems.

- Compact unit with a reduced height of 235 mm
- Fan with EC motor, reduced sound level, and minimum energy consumption
- Coils for two or four tubes
- Airflow ranges of 300 – 1,300 m³/h
- Power range up to 6.8 kW for cooling and 7.4 kW for heating
- G2 filters with metal frame for rear or side extraction
- Discharge volume airflow spigot for duct connection
- Specially designed for offices, hotels, and commercial premises, among others

Accessories and Additional Equipment

- Control system with the possibility of setting the airflow to 0-100 %
- Insulation for the condensates tray
- Valve kit
- Finish painted in any RAL CLASSIC colour

General Information	2	Data for Installation	11
Operation	3	Control Systems	12
Technical Data	4	Valve Kit	13
Quick Selection	5	Actuators	13
Specifications Text	9	Basic Information and Nomenclature	14
Order Code	10		

General Information

Application

- Modular Air-Handling Fancoil Unit, TFCU series with a compact design (235 mm-high)
- Designed for horizontal installations in false ceilings with 2 or 4-tube systems
- Double-inlet centrifugal fans, driven by single-phase EC motors, powered at 230 V 50 Hz, and controlled by a 0-10 V voltage signal, which guarantees reduced sound impact and minimum energy consumption
- Electrical connections with quick-connection terminals
- Possibility to fit cooling coils (3-row coils) for two-tube installations, or to combine cooling and heating (coils of 3 rows +1) for four-tube installations
- Cleanable G2 filter at the air inlet, with a galvanised-steel sheet frame, and simple back extraction for maintenance tasks
- Fitted with a tray screwed down from the outside for easy disassembly and cleaning. The tray extends sideways to collect condensates from the valves. It is fitted with a \varnothing 25 mm drain
- Coils with copper tubes and aluminium fins, with female hydraulic connections of \varnothing 1/2"
- Induction spigot for connecting the duct integrated into the unit housing

Nominal sizes

Length: 510 mm

Height: 235 mm

Width: As per the table

Description

Variant

TFCU: Galvanised-steel sheet housing, with closed-pore foam insulation in the coil area to avoid exterior condensation

Cooling and heating coil

2: two-tube system

4: four-tube system

Condensates tray

Condensate collection tray made of an ignition-resistant plastic material (V0), with the possibility of having additional exterior insulation

Other accessories

- Auxiliary tray to collect any drops of condensation from the valves
- Different means of regulation, such as analogue or digital thermostat for regulating between 0 and 10 V, plus the option of connecting with the control system
- The maximum water flow reaching the coils can be adjusted as required thanks to the various valve kit options

Materials and Finishes

- Galvanised-steel sheet housing and spigot, with optional painted finish
- Coil with copper tubes and aluminium fins, with galvanised-steel sheet side frames
- Galvanised-steel sheet filter frame

Standards and guidelines

Products are certified by Eurovent and listed on the Eurovent website www.eurovent-certification.com

Operation

Operation Description

Air enters the unit through the filter and passes through the fans. They then blow it through the cooling and/or heating coil, cooling it down or heating it up, to then blow it into the room.

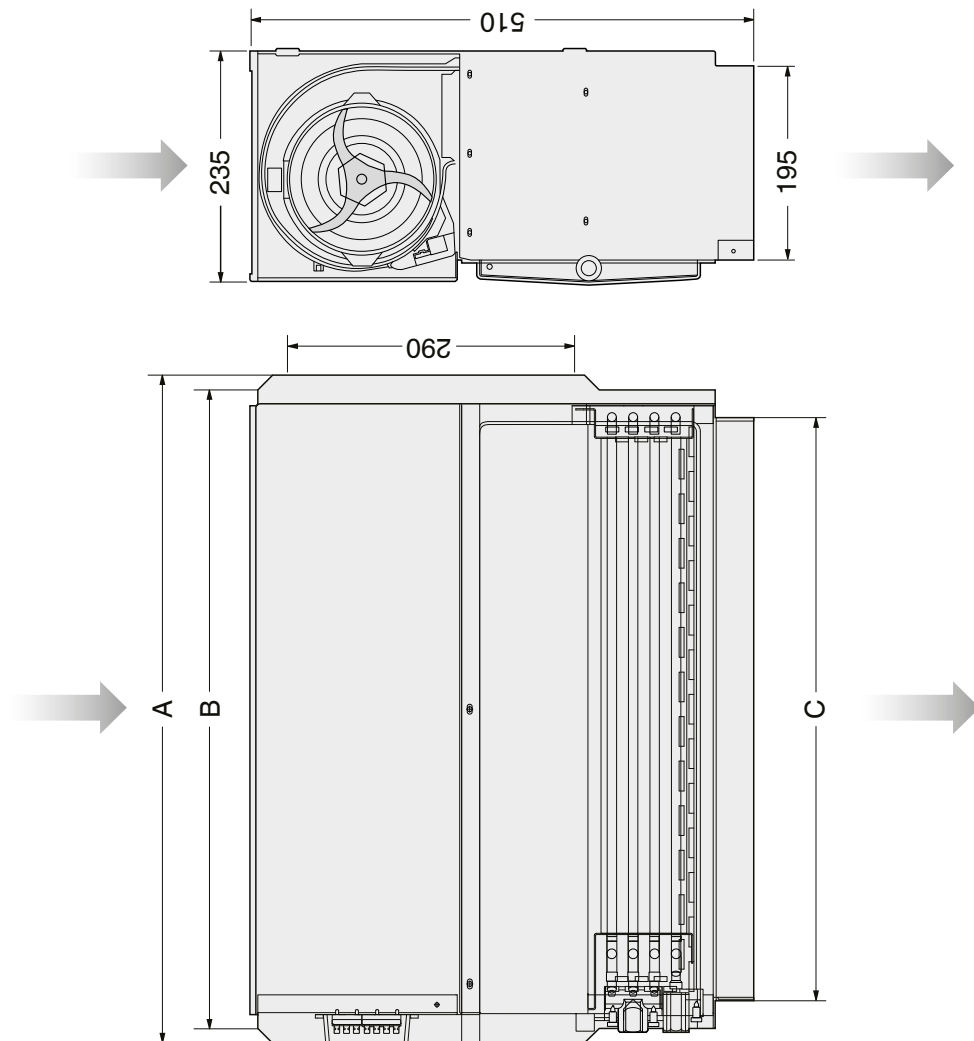
- ① Upper cover
- ② Motor-fan group
- ③ Filter
- ④ Condensates tray
- ⑤ Terminal box
- ⑥ Battery
- ⑦ Cold and/or hot water connections
- ⑧ Connection nozzle



Technical Data

Length	510 mm
Height	235 mm
Width	675, 885, 975, 1,205 and 1,405 mm
Spigot width/height	590 – 1,320 mm / 195 mm
Maximum cooling capacity	Up to 6.8 kW
Maximum heating capacity	Up to 7.4 kW
Maximum pressure on the hydraulic connection side	16 bar
Maximum operating ambient temperature	40 °C
Connection voltage	230 V/ I /50 Hz

Size	A	B	C	Weight (kg)
1	675	645	590	15
2	885	855	800	18
2,5	885	855	800	20
3	975	945	890	22,5
4	1,205	1,175	1,120	25
5	1,405	1,375	1,320	28



Connections in the diagram, 'R' side
 The arrows indicate the air direction

Quick Selection

The following selection tables contain data for the referenced variant.

2-tube fancoils with one single coil for cooling and heating

Size 1

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	346	405	459	511	557	600	616
Total cooling capacity (kW)	2,00	2,24	2,44	2,63	2,79	2,93	2,98
Sensible cooling capacity (kW)	1,48	1,67	1,84	1,99	2,12	2,24	2,28
Water flow (l/h)	340	380	420	450	480	500	510
Water pressure loss (kPa)	12,1	14,8	17,3	19,7	21,8	23,8	24,5
Heating capacity (kW)	2,15	2,43	2,68	2,91	3,11	3,29	3,35
Water flow (l/h)	370	420	470	510	540	570	580
Water pressure loss (kPa)	11,7	14,5	17,3	20,0	22,4	24,7	25,6
Consumed power (W)	10,2	13,6	20,7	27,6	35,3	43,8	47,6
Intensity (A)	0,1	0,1	0,2	0,2	0,3	0,4	0,4
Sound power OUT (dB(A))	51	52	54	60	61	63	64

Size 2

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	383	448	502	556	608	656	672
Total cooling capacity (kW)	2,05	2,31	2,51	2,70	2,86	3,02	3,06
Sensible cooling capacity (kW)	1,54	1,75	1,91	2,07	2,21	2,34	2,38
Water flow (l/h)	350	400	430	460	490	520	530
Water pressure loss (kPa)	6,5	8,0	9,3	10,6	11,8	12,9	13,2
Heating capacity (kW)	2,48	2,82	3,09	3,35	3,59	3,81	3,88
Water flow (l/h)	430	490	540	580	620	660	680
Water pressure loss (kPa)	6,2	7,7	9,1	10,5	11,9	13,2	13,6
Consumed power (W)	11,3	14,3	22,8	30,0	38,4	48,0	51,7
Intensity (A)	0,1	0,1	0,2	0,3	0,3	0,4	0,4
Sound power OUT (dB(A))	52	53	55	61	63	64	65

Size 2,5

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	451	535	601	663	736	801	857
Total cooling capacity (kW)	2,61	2,97	3,22	3,45	3,71	3,93	4,1
Sensible cooling capacity (kW)	1,93	2,21	2,42	2,61	2,82	3,0	3,15
Water flow (l/h)	450	510	550	590	640	670	700
Water pressure loss (kPa)	8,0	10,0	11,6	13,0	14,8	16,4	17,7
Heating capacity (kW)	2,83	3,25	3,56	3,84	4,17	4,44	4,67
Water flow (l/h)	490	560	620	670	720	770	810
Water pressure loss (kPa)	7,8	9,9	11,7	13,3	15,4	17,2	18,8
Consumed power (W)	11,8	17,7	23,7	32,6	43,2	54,8	67,1
Intensity (A)	0,1	0,2	0,2	0,3	0,3	0,4	0,5
Sound power OUT (dB(A))	47	49	51	57	57	59	60

Size 3

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	527	643	773	849	989	1088	1121
Total cooling capacity (kW)	3,11	3,60	4,09	4,36	4,82	5,13	5,23
Sensible cooling capacity (kW)	2,3	2,68	3,08	3,31	3,69	3,95	4,04
Water flow (l/h)	530	620	700	750	830	880	900
Water pressure loss (kPa)	11,9	15,3	19,2	21,5	25,7	28,6	29,6
Heating capacity (kW)	3,31	3,87	4,47	4,80	5,39	5,79	5,92
Water flow (l/h)	570	670	780	830	940	1010	1030
Water pressure loss (kPa)	11,2	14,8	19,0	21,6	26,4	30,0	31,1
Consumed power (W)	15,3	22,3	32,9	44,8	61,9	81,7	91,1
Intensity (A)	0,1	0,2	0,2	0,3	0,4	0,6	0,6
Sound power OUT (dB(A))	49	50	53	59	60	65	65

Size 4

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	656	782	914	1042	1152	1192	1203
Total cooling capacity (kW)	3,82	4,34	4,84	5,30	5,67	5,79	5,83
Sensible cooling capacity (kW)	2,82	3,24	3,65	4,03	4,33	4,44	4,47
Water flow (l/h)	660	750	830	910	970	1.000	1.000
Water pressure loss (kPa)	9,0	11,3	13,8	16,1	18,1	18,9	19,1
Heating capacity (kW)	4,11	4,72	5,34	5,90	6,37	6,53	6,58
Water flow (l/h)	710	820	930	1030	1110	1140	1140
Water pressure loss (kPa)	8,7	11,2	13,8	16,5	18,9	19,7	20,0
Consumed power (W)	17,3	26,6	39,3	55,3	73,7	82,2	82,7
Intensity (A)	0,2	0,3	0,4	0,5	0,7	0,7	0,7
Sound power OUT (dB(A))	47	52	55	58	60	62	62

Size 5

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	851	998	1144	1251	1293	1311	1315
Total cooling capacity (kW)	5,04	5,65	6,21	6,60	6,74	6,81	6,82
Sensible cooling capacity (kW)	3,71	4,20	4,65	4,98	5,10	5,15	5,16
Water flow (l/h)	860	970	1.070	1.130	1.160	1.170	1.170
Water pressure loss (kPa)	17,1	20,9	24,7	27,5	28,6	29,0	29,1
Heating capacity (kW)	5,28	5,99	6,66	7,14	7,32	7,40	7,42
Water flow (l/h)	920	1040	1160	1240	1270	1290	1290
Water pressure loss (kPa)	15,7	19,7	23,7	26,7	28,0	28,5	28,6
Consumed power (W)	21,6	31,1	45,6	63,3	71,0	78,1	78,8
Intensity (A)	0,2	0,2	0,4	0,5	0,5	0,5	0,5
Sound power OUT (dB(A))	48	52	55	57	58	58	59

2T reference values

Parameter	Cooling	Heating
Air inlet	27 °C	20 °C
Air relative humidity	47%	50%
Water inlet	7 °C	45 °C
Water outlet	12 °C	40 °C
Pressure available	0 Pa	
Altitude above sea level	0.0 m	
Coolant	Water	
Sound power	As per Standard ISO 3741	

4-tube fancoils with one coil for cooling and heating
Size 1

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	310	369	424	477	522	564	581
Total cooling capacity (kW)	1,84	2,09	2,31	2,51	2,67	2,81	2,87
Sensible cooling capacity (kW)	1,35	1,56	1,73	1,89	2,02	2,14	2,19
Water flow (l/h)	320	360	400	430	460	480	490
Water pressure loss (kPa)	10,5	13,2	15,7	18,1	20,2	22,1	22,9
Heating capacity (kW)	1,62	1,82	1,99	2,14	2,26	2,37	2,42
Water flow (l/h)	140	160	170	190	200	210	210
Water pressure loss (kPa)	4,4	5,4	6,3	7,1	7,9	8,6	8,9
Consumed power (W)	9,3	12,7	19,3	26,1	33,4	41,4	45,4
Intensity (A)	0,1	0,1	0,2	0,2	0,3	0,4	0,4
Sound power OUT (dB(A))	51	51	54	59	61	63	63

Size 2

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	370	434	486	541	592	639	656
Total cooling capacity (kW)	2,0	2,25	2,45	2,64	2,81	2,96	3,02
Sensible cooling capacity (kW)	1,5	1,71	1,86	2,02	2,17	2,29	2,34
Water flow (l/h)	340	390	420	450	480	510	520
Water pressure loss (kPa)	6,2	7,7	8,9	10,2	11,4	12,5	12,9
Heating capacity (kW)	2,1	2,33	2,51	2,69	2,85	2,99	3,04
Water flow (l/h)	180	200	220	240	250	260	270
Water pressure loss (kPa)	8,8	10,6	12,1	13,7	15,1	16,5	16,9
Consumed power (W)	10,9	14,1	21,9	29,1	37,3	46,6	50,5
Intensity (A)	0,1	0,1	0,2	0,3	0,3	0,4	0,4
Sound power OUT (dB(A))	52	53	55	60	62	64	65

Size 2,5

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	424	516	582	643	713	777	831
Total cooling capacity (kW)	2,5	2,89	3,15	3,38	3,63	3,85	4,02
Sensible cooling capacity (kW)	1,84	2,15	2,36	2,55	2,76	2,94	3,08
Water flow (l/h)	430	500	540	580	620	660	690
Water pressure loss (kPa)	7,4	9,5	11,1	12,6	14,2	15,8	17,0
Heating capacity (kW)	2,3	2,61	2,82	3,01	3,21	3,38	3,53
Water flow (l/h)	200	230	250	260	280	300	310
Water pressure loss (kPa)	10,3	12,9	14,8	16,6	18,6	20,4	22,0
Consumed power (W)	13,0	17,3	23,3	32,0	42,2	53,6	65,5
Intensity (A)	0,1	0,2	0,2	0,2	0,3	0,4	5
Sound power OUT (dB(A))	48	49	51	57	57	59	60

Size 3

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	481	589	710	789	930	1.030	1.071
Total cooling capacity (kW)	2,91	3,38	3,86	4,15	4,63	4,95	5,08
Sensible cooling capacity (kW)	2,13	2,5	2,89	3,13	3,53	3,8	3,91
Water flow (l/h)	500	580	660	710	800	850	870
Water pressure loss (kPa)	10,5	13,7	17,3	19,7	23,9	26,9	28,1
Heating capacity (kW)	2,62	2,98	3,36	3,59	3,98	4,24	4,34
Water flow (l/h)	230	260	290	310	350	370	380
Water pressure loss (kPa)	14,2	17,9	22,1	24,8	29,7	33,2	34,6
Consumed power (W)	14,5	21,1	30,6	42,1	58,2	77,8	93,7
Intensity (A)	0,1	0,2	0,2	0,3	0,4	0,5	0,7
Sound power OUT (dB(A))	43	48	52	55	58	60	61

Size 4

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	607	733	864	980	1.097	1.158	1.169
Total cooling capacity (kW)	3,60	4,14	4,66	5,08	5,48	5,69	5,72
Sensible cooling capacity (kW)	2,65	3,08	3,5	3,85	4,18	4,35	4,38
Water flow (l/h)	620	710	800	870	940	980	980
Water pressure loss (kPa)	8,2	10,4	12,8	15,0	17,1	18,2	18,4
Heating capacity (kW)	3,19	3,61	4,01	4,34	4,66	4,81	4,84
Water flow (l/h)	280	320	350	380	410	420	420
Water pressure loss (kPa)	3,4	4,3	5,1	5,9	6,7	7,1	7,1
Consumed power (W)	16,3	25,2	37,4	52,1	70,6	83,8	85,2
Intensity (A)	0,2	0,3	0,4	0,5	0,6	0,7	0,7
Sound power OUT (dB(A))	46	51	54	58	60	62	62

Size 5

Performance	4V	5V	6V	7V	8V	9V	10V
Air flow rate (m ³ /h)	778	930	1072	1.195	1.241	1.268	1.274
Total cooling capacity (kW)	4,72	5,37	5,94	6,40	6,56	6,66	6,68
Sensible cooling capacity (kW)	3,46	3,98	4,43	4,81	4,95	5,02	5,04
Water flow (l/h)	810	920	1.020	1.100	1.130	1.140	1.150
Water pressure loss (kPa)	15,2	19,1	22,8	26,0	27,2	27,9	28,1
Heating capacity (kW)	4,05	4,55	4,98	5,33	5,46	5,53	5,55
Water flow (l/h)	350	400	440	470	480	480	490
Water pressure loss (kPa)	6,1	7,4	8,7	9,8	10,3	10,5	10,5
Consumed power (W)	20,1	29,2	42,9	61,1	71,8	78,8	80,0
Intensity (A)	0,2	0,2	0,3	0,5	0,5	0,5	0,5
Sound power OUT (dB(A))	47	52	54	57	58	58	59

4T reference values

Parameter	Cooling	Heating
Air inlet	27 °C	20 °C
Air relative humidity	47%	50%
Water inlet	7 °C	65 °C
Water outlet	12 °C	55 °C
Pressure available	0 Pa	
Altitude above sea level	0.0 m	
Coolant	Water	
Sound power	As per Standard ISO 3741	

Specifications Text

This specifications text describes the product's general features. The product software FCUS can be used to calculate performances different from those specified here.

Modular fancoil unit, TFCU series, with a compact design for air handling, to be installed horizontally in false ceilings.

The unit is made up of a housing with hanging elements, air-outlet spigot, double-inlet centrifugal fans driven by single-phase EC motors, terminal box, heating and/or cooling coils, filter, and condensates tray.

Special features

- Double-inlet centrifugal fans, driven by single-phase EC motors, powered at 230 V 50 Hz, and controlled by a 0-10 V voltage signal
- Cooling coils (3-row coils) for two-tube installations, or to combine cooling and heating (coils of 3 rows +1) for four-tube installations
- G2 filter at the air inlet
- The tray is screwed on from the exterior, so it can be easily disassembled for cleaning. The tray is flush with a unit to collect any condensation from the valves. It is fitted with a \varnothing 25 mm drain
- Coils with female hydraulic connections \varnothing 1/2"
- Induction spigot for duct connection

Materials and Finishes

- The housing, the spigot for duct connection, and the filter frame are made of galvanised-steel sheets
- The fans and the condensates tray are made of plastic
- Coils are made of copper tubes and aluminium fins

Nominal sizes

- Length: 510 mm
- Height: 235 mm
- Width: 675, 885, 975, 1,205 and 1,405 (depending on size)
- Spigot for air inlet (width/height):
590 – 1,320 mm / 195 mm
- Maximum cooling capacity: Up to 6.8 kW
- Maximum heating capacity: Up to 7.4 kW
- Maximum pressure on the water side: 16 bar
- Maximum operating ambient temperature: 40 °C

Dimensions

Air flow	\dot{V}
Total cooling capacity	Q_{tot} kW
Sensible cooling capacity	Q_s kW
Water flow	V_w l/h
Water pressure loss	ΔP_w kPa
Total heating capacity	Q_w kW
Consumed power	W
Intensity	I A
Generated air noise	LWA dB(A)

Order code

TFCU / 3 / 4T / R / 0 / P1 - 9010 / 3 / 7 / 0

1
2
3
4
5
6
7
8
9
10

1 Series

TFCU

2 Size

1; 2; 2,5; 3; 4; 5

3 Coils

2T 2 tubes

4T 4 tubes

4 Connections side (in the direction of air flow)

R Right

L Left

5 Condensates tray

No code: standard

KV Auxiliary tray for valves

D Condensates tray with insulation

D-KV Condensates and auxiliary tray for valves with insulation

A2 Stainless steel condensates tray with insulation

A2-KV Stainless steel condensates and auxiliary tray with insulation

6 Housing

No code: Galvanised-steel plate

P1 Powder-coated, specify colour

7 Gloss level

RAL 9010 50 %

RAL 9006 30 %

Other colours 70 %

8 Control system

0 No control

1 Ambient analogue thermostat (without display)

2 Ambient digital thermostat (includes display)

3 ¹⁾ Ambient white digital thermostat (includes display) with ModBus communication (*)

4 ¹⁾ Ambient black digital thermostat (includes display) with ModBus communication (*)

5 Ambient digital thermostat (includes display) with KNX communication

9 Valve kit

0 Without valves

1 ²⁾ With hydraulic kit consisting of 2-way control valve, lockshield valve with micrometer regulation for flow rate adjustment, flexible sleeves, and shut-off valves

2 ²⁾ With hydraulic kit consisting of 4-way control valve, flexible sleeves and shut-off valves

3 ²⁾ With the hydraulic kit consisting of a 2-way control valve with dynamic balancing, flexible sleeves, a shut-off valve, and a shut-off valve with a built-in filter

4 ²⁾ With the hydraulic kit assembled and sealed with a 2-way control valve with PICV dynamic balancing, a shut-off valve with built-in filter, a shut-off valve and cleaning bypass. It includes an insulating wrap for the external motor set and Velcro fastener

5 Option 1 for 4T systems

6 Option 2 for 4T systems

7 Option 3 for 4T systems

8 Option 4 for 4T systems

10 Actuators

0 Without actuator

1 On-Off actuator(s) 24 V DC

2 On-Off actuator(s) 230 V AC

1) Remote control upon request

2) Valve kit for 2T systems

Selection example

TFCU-2-4T-R-0-P1-9010-3-4-1

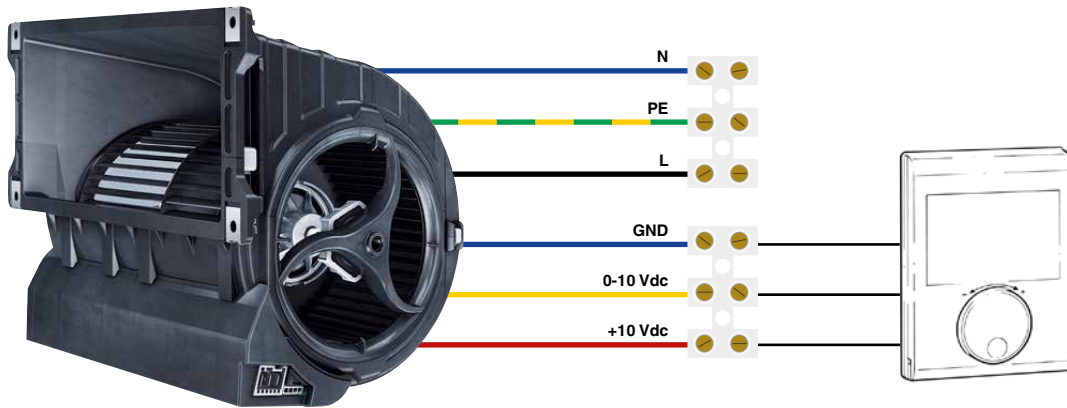
Fancoil unit size 2	TFCU-2
Coil	4 tubes
Connection side	Right
Dimensions	885 × 235 × 510 mm
Condensates tray	Without insulation
Finish	RAL 9010 50 %
Control system	Ambient digital thermostat (includes display) with ModBus communication
Valve kit	With hydraulic kit consisting of 2-way valves
Actuators	On-Off actuators 24 V DC

Data for Installation

Mechanical Fixings

- Fixing the unit to the ceiling using 8 mm threaded rods, washers, nuts, and locknuts (not included).
- Fix in such a way that there is a slope of around 10 mm unit width towards the draining side.

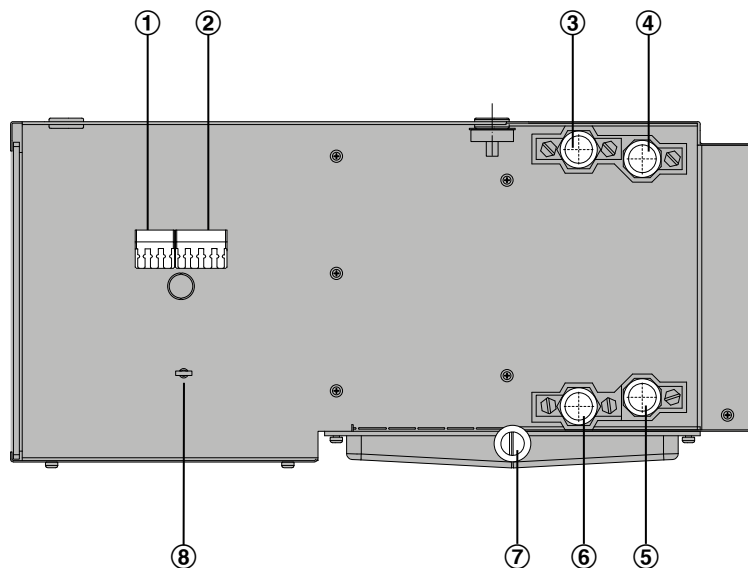
Electrical Connections



Hydraulic connections

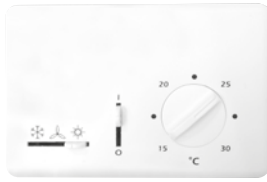
- Fluid will always enter via the lower manifold and come out via the upper manifold.
- After making the coil's hydraulic connection, it needs to be purged with the built-in purgers.
- When making the coils' hydraulic connection, make sure that the manifold is properly held, to avoid damaging the tubes.

- | | |
|----------------------|--|
| ① Power connection | ⑤ Heat inlet |
| ② Control connection | ⑥ Cold inlet |
| ③ Cold outlet | ⑦ Drain |
| ④ Heat outlet | ⑧ Fixing device for power and fan cables |



Control systems

Ambient analogue thermostat, without display



It is fitted with a 0-10 V proportional output for regulating the fan, and two on-off outputs for valve activation. It is provided with a mode selector for cold, fan or heat operation. The thermostat operates by reaching the set temperature selected by the user. The set temperature can range between 15 and 30 °C. The temperature is measured by a sensor installed inside the thermostat. Optionally, an NTC-type sensor can be connected.

Ambient digital thermostat, with display



It is fitted with a 0-10 V proportional output for regulating the fan, and two on-off outputs for valve activation. The push buttons can be used to select the status, the operating mode, or the set temperature. The temperature is measured by a sensor installed inside the thermostat. Optionally, an NTC-type sensor can be connected.

A remote stop can be activated by window contact, card holder, motion sensor, etc.

It also offers options for time programming, selectable maximum and minimum temperatures, or fan maximum and minimum speed, both in heating and cooling modes.

Ambient digital thermostat with display and ModBus connection



It is fitted with a 0-10 V proportional output for regulating the fan, and 2 on-off outputs at 230 V for valve activation.

Modbus communication protocol, RTU mode, RS-485 (2 wire). The push buttons can be used to select the status, the operating mode, or the set temperature. The temperature is measured by a sensor installed inside the thermostat.

Optionally, an NTC-type sensor can be connected. A remote stop can be activated by window contact, card holder, motion sensor, etc.

It also offers options for time programming, selectable maximum and minimum temperatures, or fan maximum and minimum speed, both in heating and cooling modes.

Ambient digital thermostat with display and KNX connection



It is fitted with a 0-10 V proportional output for regulating the fan, and 2 on-off outputs for valve activation.

Power supply at 24 V AC with KNX communication protocol.

The push buttons can be used to select the status, the operating mode, or the set temperature. The temperature is measured by a sensor installed inside the thermostat.

Optionally, an NTC-type sensor can be connected. A remote stop can be activated by window contact, card holder, motion sensor, etc.

It also offers options for time programming, selectable maximum and minimum temperatures, or fan maximum and minimum speed, both in heating and cooling modes.

Valve kit

The valve kit options include the following possible configurations. Depending on the configuration of the units, these will be supplied with a kit for 2T systems or with two kits for 4T systems.

Kit consisting of a 2-way control valve, a lockshield valve with micrometer regulation for flow rate adjustment, flexible sleeves, and shut-off valves.

Kit consisting of a 4-way control valve, flexible sleeves and shut-off valves.

Kit consisting of a 2-way control valve with dynamic balancing, flexible sleeves, a shut-off valve, and a shut-off valve with a built-in filter.

Hydraulic kit assembled and sealed with a 2-way control valve with PICV dynamic balancing, a shut-off valve with built-in filter, a shut-off valve and cleaning bypass. Insulating wrap for the external motor set and Velcro fastener.



Flow rate control 2-way valves with dynamic balancing, regardless of the hydraulic circuit pressure.



Ball valve with built-in filter.



Flexible connectors for joining two tube sections.



Hydraulic kit and protective housing

Actuators

An actuator for the on-off regulating valve, with a voltage of 24 V DC and 230 V AC can be supplied as option.



On-off actuator for hydraulically controlling the coils.

Basic Information and Nomenclature

LN [mm] Nominal dimension	VW [l/h] Water flow – cooling/heating
LWA [dB(A)] Sound power level	ΔtW [K] Water temperature difference
Qtot [W] Total cooling capacity	ΔpW [kPa] Pressure loss, hydraulic connection side
QW [W] Total heating capacity	Δp_d [Pa] External static pressure

TROX[®] TECHNIK
The art of handling air

TROX España

Pol. Ind. La Cartuja
50720 Zaragoza - Spain
Tel: 34 976 50 02 50
www.trox.es
trox@trox.es