



HFCF - Compact

Ceiling Concealed Type 400 – 1,200 CFM

Chilled Water Fan Coil Units

Model 04-12 Series 50Hz

TRANE
TECHNOLOGIES





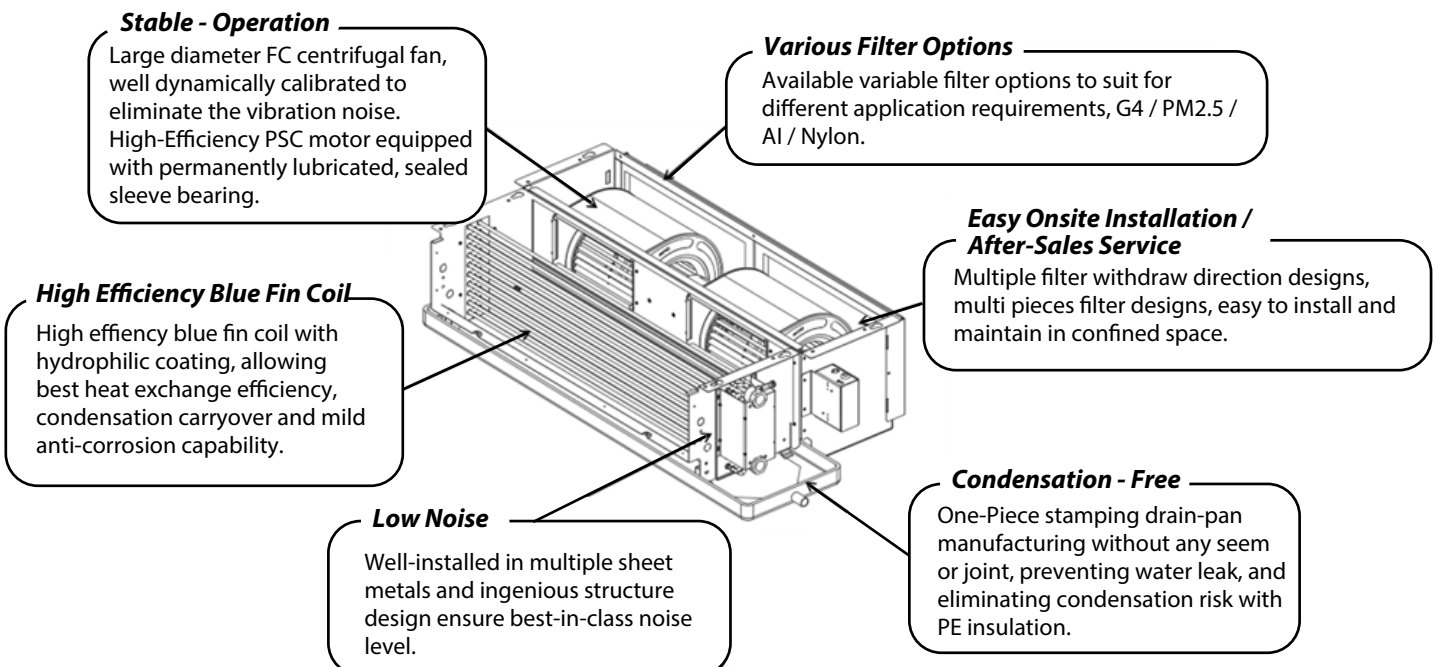
Features and Benefits Overview



HFCF-Compact is another leap over the leading HFCF-Compact, working everywhere around the world. HFCF-Compact meets the standards of today's market, as well as the anticipated needs of tomorrow's market. The tradition that company founder Reuben Trane began in the 1930s continues with the latest generation of fan-coils from The Trane Company. The best design we are offering by HFCF-Compact:

- High efficiency blue fin coil with hydrophilic coating, allowing best heat exchange efficiency, condensation carryover and anti-corrosion capability.
- Large diameter and multiple blowers to reduce noise level
- Various ESP (External Static Pressure) motor options to provide more precise matches.
- Easy maintenance and service.
- Reliable performance that fully tested under accredit laboratory and certified with AHRI 440-2019 Certification.

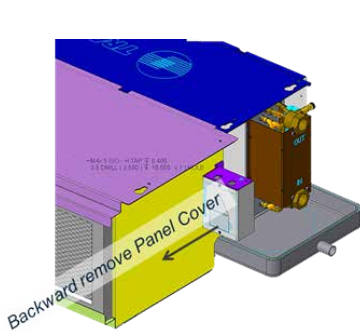
HFCF-Compact with Return Plenum Components & Features



Features and Benefits

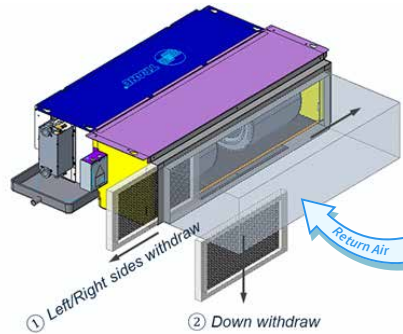
Easy Maintenance

HFCF-Compact is designed with compact casing size and slim cabinet height, it is especially suitable for the installation for confined building space. The components are designed to provide flexible onsite installation and ease of maintenance.



Backward Remove Panel Cover

The backward remove panel cover direction is easier for the service in the confined space or building.



Interchangeable Filter Withdraw Direction

The HFCF-Compact is designed with different withdraw directions, suitable for different kind of installation types and applications. The multi-pieces filters design are applied, it is easier remove filter from confine space or service manhole.



Easy Piping Installation

The water pipe designed with connection 3/4" FPT (female pipe thread), easy to connect, totally reduce the installation time and labor.

Filtrations (Options)

HFCF-Compact offers different types of filtration options and filtration efficiency for the specific requirements of your application (e.g. residential, healthcare, industrial). Multi-pieces of filters are used in each unit. It is easy to remove, change or service. The standard filters options are as below, for special options may be provided by request.



Aluminum Mesh Filter

High-strength aluminum mesh filter with aluminum frame. Durable and long service life. Easy to install, clean and low maintenance cost.



Washable Nylon Filter

2 layers Nylon filter with aluminum frame. Lightweight, wear resistant, long service life and strong dust proof performance. Easy and safe to use and replace. Suitable for primary filtration system.



PM 2.5 Filter (Air Cleanser Filter)

Utilize our high-efficiency PM2.5 filter, specifically designed to capture harmful particles smaller than 2.5 micrometers. This filter effectively purifies the air in your space.



Washable G4-Filter

Washable polyester fiber with aluminum frame. High filtration efficiency with low pressure resistance.



Features and Benefits

Accessories (Options)

Control Valve



Standard spring return valve for temperature range adjustment. Provided separately or factory fitted. (For different valve options might be provided by request).

Power Supply	220 - 240 VAC / 50 Hz
Power Consumption	6.5 W
Nominal Pressure	2.1 MPa / 305 psi
Close-Off Pressure	344 kPa / 50 psi
IP-Grade	IP 51
Type	Spring Return / On-Off

Digital Room Thermostat



The factory fitted the thermostat with 3 speed fan adjustment and precise temperature control. The casing is aesthetic appearance with minimal design. Perfectly fit with the indoor decoration.

Power Supply	220 - 240 VAC / 50 Hz
Temp. Accuracy	± 1 °C
Temp. Range	18 – 30 °C

Drain Pan



One-Piece stamping drain-pan manufactured from high quality cold-rolled steel sheet with spray coating; high grade insulation material is securely attached to the drain pan. Stainless-steel material of drain pan are available as options.

Nomenclature

H	F	C	F	0	4	R	3	0	3	1	0	0	N	B	0	A	A	T
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Digit 1-4 Unit Type

H	Horizontal
F	Fan Coil Unit
C	Concealed
F	Platform Version

Digit 5-6 Size - Nominal CFM

04	400 CFM
06	600 CFM
08	800 CFM
10	1000 CFM
12	1200 CFM

Digit 7 Connection Side

L	Left Hand Connection
R	Right Hand Connection

Digit 8 Coil Rows

3	3 rows
4	4 rows

Digit 9 Electric Heater

0	No Electric Heater
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Digit 10 Motor Type

3	PSC Motor–ESP 30 Pa/0.12 in.WG.
5	PSC Motor–ESP 50 Pa/0.20 in.WG.

Digit 11 Voltage / Hertz / Phase

1	200 - 240VAC/50Hz/1 Phase
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Digit 12 Valve

0	None
A	2 - way valve
B	3 - way valve

Digit 13 Control

0	None
A	LED Thermostat

Digit 14 Plenum Filter

0	None
A	Rear Return Air Plenum
B	Rear Return Air Plenum w/ Nylon Filter
C	Rear Return Air Plenum w/ Al Filter
L	Rear Return Air Plenum w/ PM 2.5 Filter
S	Rear Return Air Plenum w/ G4 Filter

Digit 15 Drain Pan

A	Cold-rolled Steel, PE Insulation
D	Stainless Steel, PE Insulation

Digit 16 IAQ Option

0	No IAQ Option
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Digit 17 Design Version

A	Design Version
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Digit 18 Sales Region

A	APR
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Digit 19 Manufacturing Site

T	Made in Thailand
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Performance Data

HFCF-Compact (3 Rows Coil)

- Nominal air flow range 400 – 1,200 CFM.
- Designed for low to medium static pressure 0.12 and 0.20 in.WG. (30 and 50 Pa).
- High efficiency blue fin coil with hydrophilic coating, condensation carryover and anti-corrosion.
- Well-installed in multiple sheet metal and optimize blower arrangement for sound optimization.
- A one-piece stamped drain pan design without any seams or joints, preventing water leak, and eliminating condensation risk with PE insulation.
- Rear return plenum constructed from galvanized steel to enclose the fan section. The return plenum is compatible with various filter options.
- Fully laboratory tested and rated for reliable performance.

Performance			Low Static Pressure 0.12 in.WG. (30 Pa)					Medium Static Pressure 0.20 in.WG. (50 Pa)				
			04	06	08	10		04	06	08	10	12
Airflow	High Speed	CFM	400	600	800	1000	1200	400	600	800	1000	1200
	Mid Speed		360	540	740	930	1120	360	540	740	930	1120
	Low Speed		240	360	480	600	720	330	500	680	870	1070
Normal Application ^{*1}	Cooling Capacity	BTU	12000	18000	25000	30000	34000	12000	18000	25000	30000	34000
	Water Flow	GPM	2.4	3.6	5.0	6.0	6.8	2.4	3.6	5.0	6.0	6.8
	Pressure Drop	ft.WG.	7.4	8.0	11.7	12.0	9.7	7.4	8.0	11.7	12.0	9.7
Power Consumption	High Speed	W	76	122	164	200	223	84	131	175	213	242
	Mid Speed		70	115	155	185	217	76	120	161	197	221
	Low Speed		54	87	116	141	167	70	113	155	181	212
Sound Level ^{*2}	High Speed	dB(A)	37.0	43.0	44.0	45.5	49.0	40.0	43.5	46.0	46.0	50.5
	Mid Speed		35.0	41.5	43.0	44.0	48.0	37.5	42.0	44.5	45.0	49.0
	Low Speed		27.0	31.5	34.5	35.0	40.0	35.5	40.5	43.5	43.5	48.0
Number of Blower			2	2	3	3	4	2	2	3	3	4
Number of Motor			1	1	2	2	2	1	1	2	2	2
Working Pressure			261 psig (1.8 Mpa)									
Coil Type			Copper Tube / Blue Fin Coil with Hydrophilic Coating									
Fan Type			Forward Curve Centrifugal Fan									
Motor Type			Single-Phase Permanent Split Capacitor / 220-240 VAC / 50 Hz									
Water Inlet / Outlet Diameter			3/4" FPT (Female Pipe Thread)									
Drain Pan Connection Diameter			3/4" MPT (Male Pipe Thread)									
Accessories Options			Cold-rolled/Stainless Steel Drain Pan Al/Nylon/G4/PM2.5 Filter Options, Thermostat, Control Valve									

*1 Inlet air dry bulb / wet bulb temperature 80/67 °F, water inlet/outlet temperature 45/55 °F, at high speed tested per AHRI Standard 440-2019.

*2 Sound pressure at 1 meter beneath unit tested.



Performance Data

HFCF-Compact (4 Rows Coil)

- Nominal air flow range 400 – 1,200 CFM.
- Designed for low to medium static pressure 0.12 and 0.20 in.WG. (30 and 50 Pa).
- High efficiency blue fin coil with hydrophilic coating, condensation carryover and anti-corrosion.
- Well-installed in multiple sheet metal and optimize blower arrangement for sound optimization.
- A one-piece stamped drain pan design without any seams or joints, preventing water leak, and eliminating condensation risk with PE insulation.
- Rear return plenum constructed from galvanized steel to enclose the fan section. The return plenum is compatible with various filter options.
- Fully laboratory tested and rated for reliable performance.

Performance			Low Static Pressure 0.12 in.WG. (30 Pa)					Medium Static Pressure 0.20 in.WG. (50 Pa)				
			04	06	08	10	12	04	06	08	10	12
Airflow	High Speed	CFM	400	600	800	1000	1200	400	600	800	1000	1200
	Mid Speed		360	540	740	930	1120	360	540	740	930	1120
	Low Speed		240	360	480	600	720	330	500	680	870	1070
Normal Application ^{*1}	Cooling Capacity	BTU	14000	21000	28000	35000	40000	14000	21000	28000	35000	40000
	Water Flow	GPM	2.8	4.2	5.6	7.0	8.0	2.8	4.2	5.6	7.0	8.0
	Pressure Drop	ft.WG.	10.0	11.7	16.7	15.7	14.7	10.0	11.7	16.7	15.7	14.7
Power Consumption	High Speed	W	76	122	164	200	223	84	131	175	213	242
	Mid Speed		70	115	155	185	217	76	120	161	197	221
	Low Speed		54	87	116	141	167	70	113	155	181	212
Sound Level ^{*2}	High Speed	dB(A)	37.0	43.0	44.0	45.5	49.0	40.0	43.5	46.0	46.0	50.5
	Mid Speed		35.0	41.5	43.0	44.0	48.0	37.5	42.0	44.5	45.0	49.0
	Low Speed		27.0	31.5	34.5	35.0	40.0	35.5	40.5	43.5	43.5	48.0
Number of Blower			2	2	3	3	4	2	2	3	3	4
Number of Motor			1	1	2	2	2	1	1	2	2	2
Working Pressure			261 psig (1.8 Mpa)									
Coil Type			Copper Tube / Blue Fin Coil with Hydrophilic Coating									
Fan Type			Forward Curve Centrifugal Fan									
Motor Type			Single-Phase Permanent Split Capacitor / 220-240 VAC / 50 Hz									
Water Inlet / Outlet Diameter			3/4" FPT (Female Pipe Thread)									
Drain Pan Connection Diameter			3/4" MPT (Male Pipe Thread)									
Accessories Options			Cold-rolled/Stainless Steel Drain Pan Al/Nylon/G4/PM2.5 Filter Options, Thermostat, Control Valve									

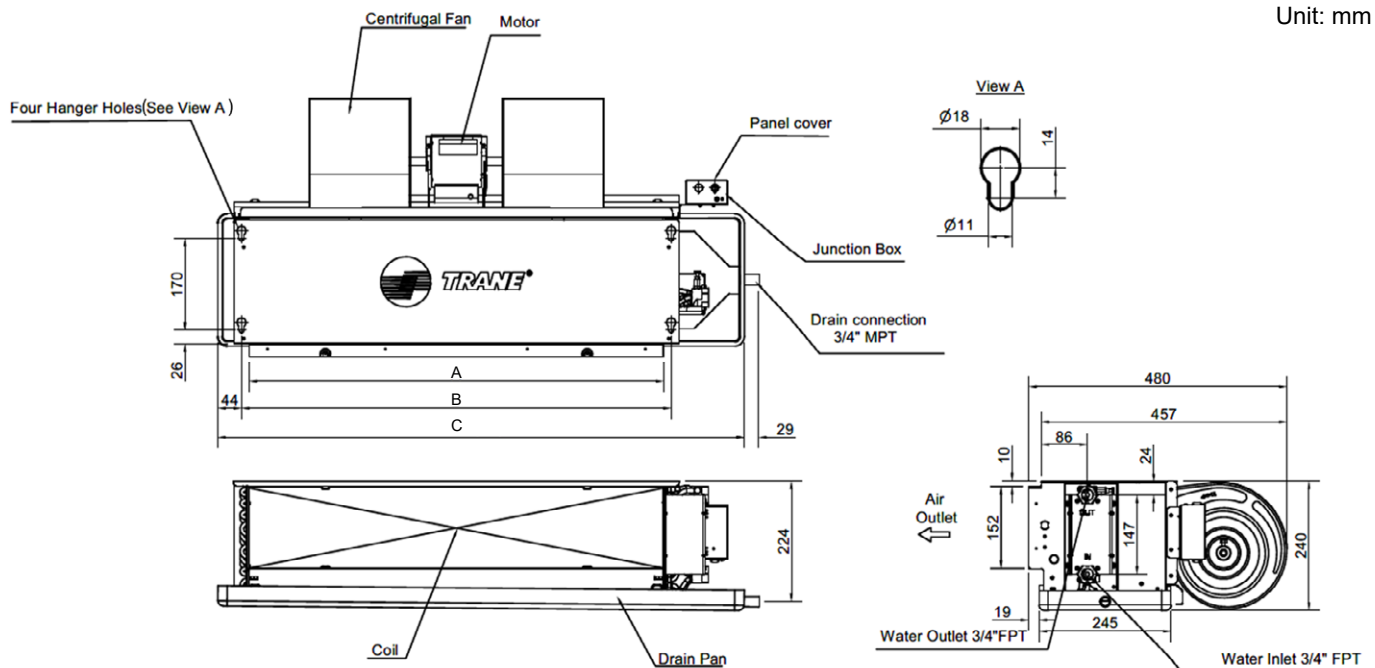
*1 Inlet air dry bulb / wet bulb temperature 80/67 °F, water inlet/outlet temperature 45/55 °F, at high speed tested per AHRI Standard 440-2019.

*2 Sound pressure at 1 meter beneath unit tested.

Dimension Data HFCF-Compact without rear return plenum

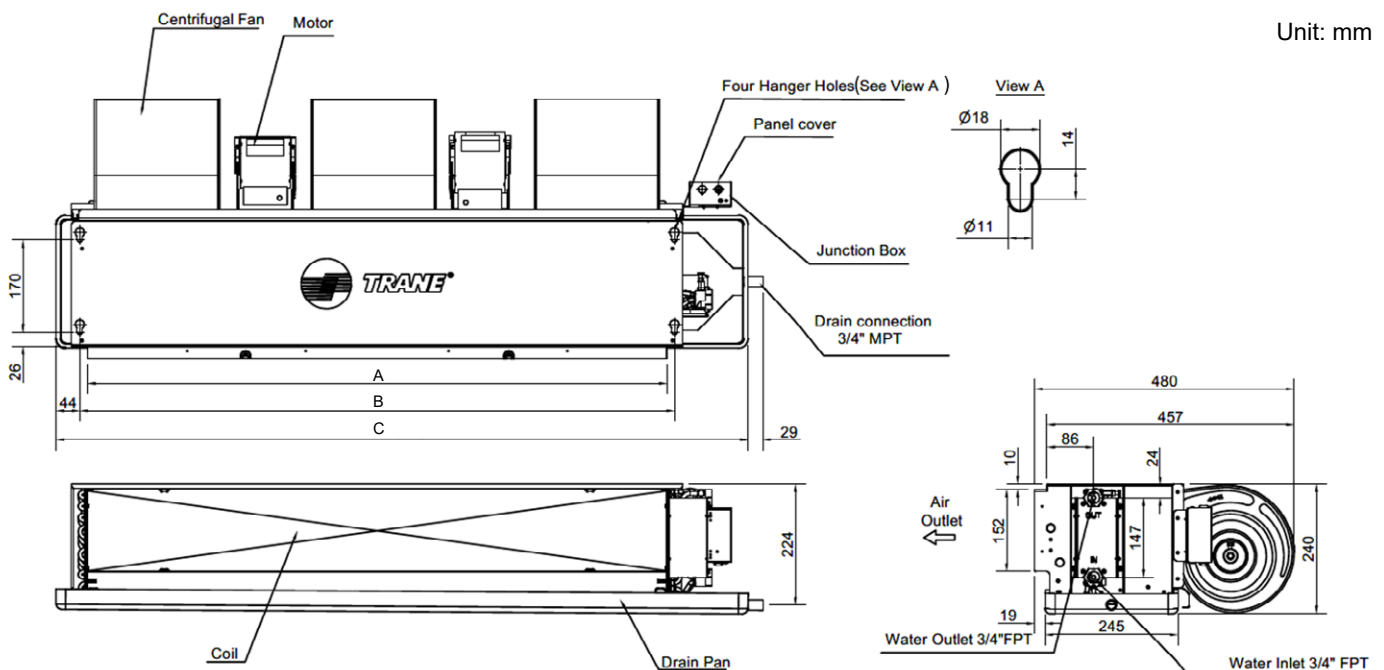
HFCF-Compact 04/06

Unit: mm



HFCF-Compact 08/10

Unit: mm



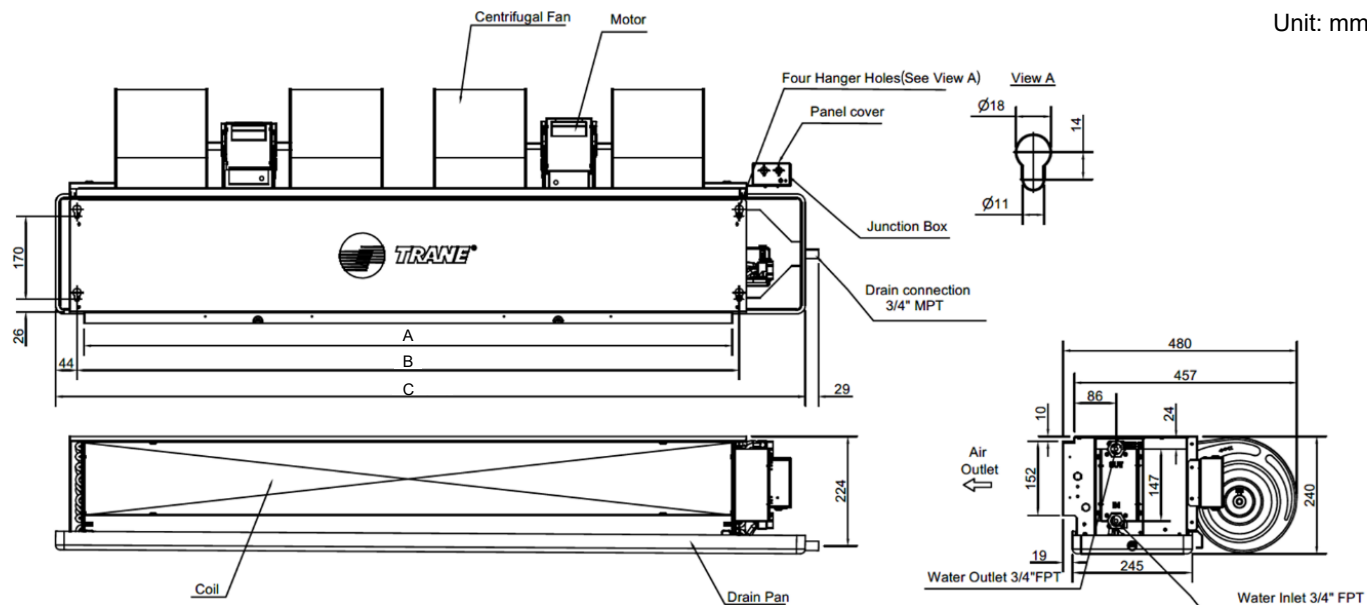


Dimension Data

HFCF-Compact without rear return plenum

HFCF-Compact 12

Unit: mm

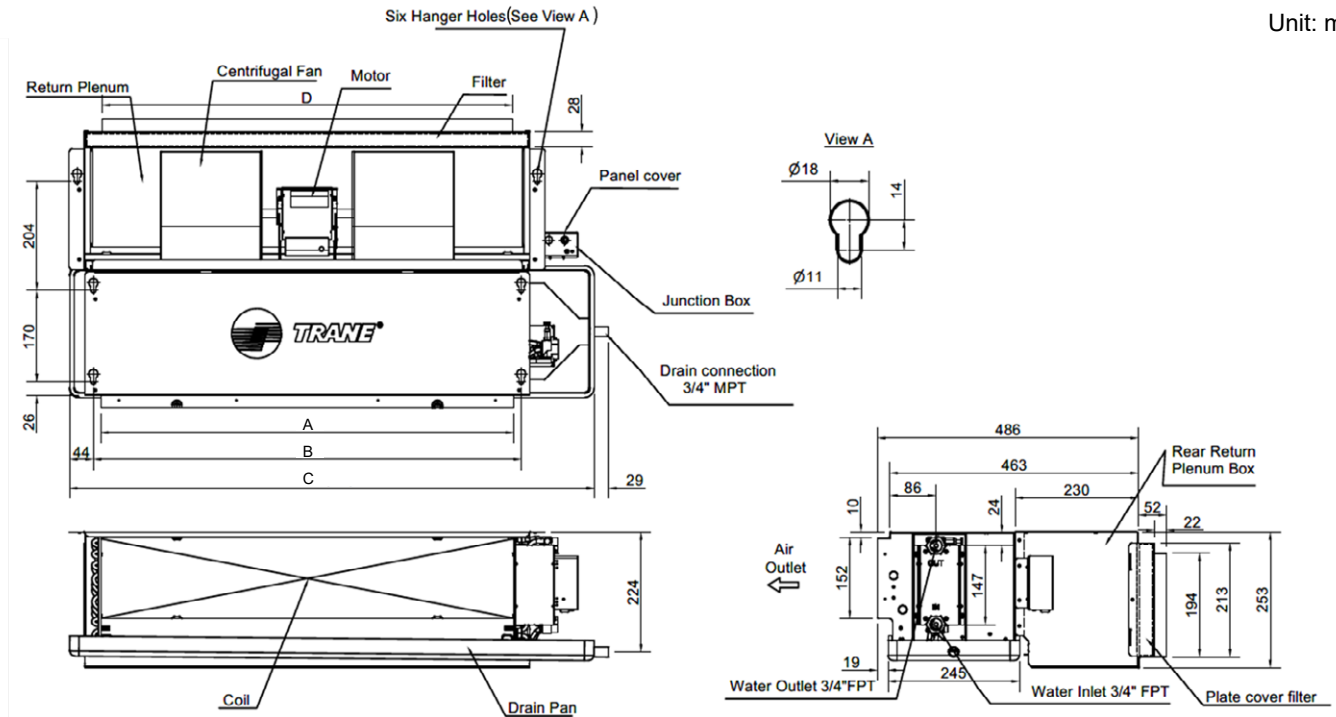


Model	Unit Dimension (mm)			FAN QTY.	MOTOR QTY.	Weight (kg) wo Plenum	
	A	B	C			3R	4R
HFCF-Compact 04	590	618	798	2	1	14.8	15.3
HFCF-Compact 06	770	798	978	2	1	17.2	18.1
HFCF-Compact 08	1070	1098	1283	3	2	25.3	26.1
HFCF-Compact 10	1210	1238	1423	3	2	27.4	28.5
HFCF-Compact 12	1330	1358	1543	4	2	30.2	32.5

Dimension Data HFCF-Compact with rear return plenum

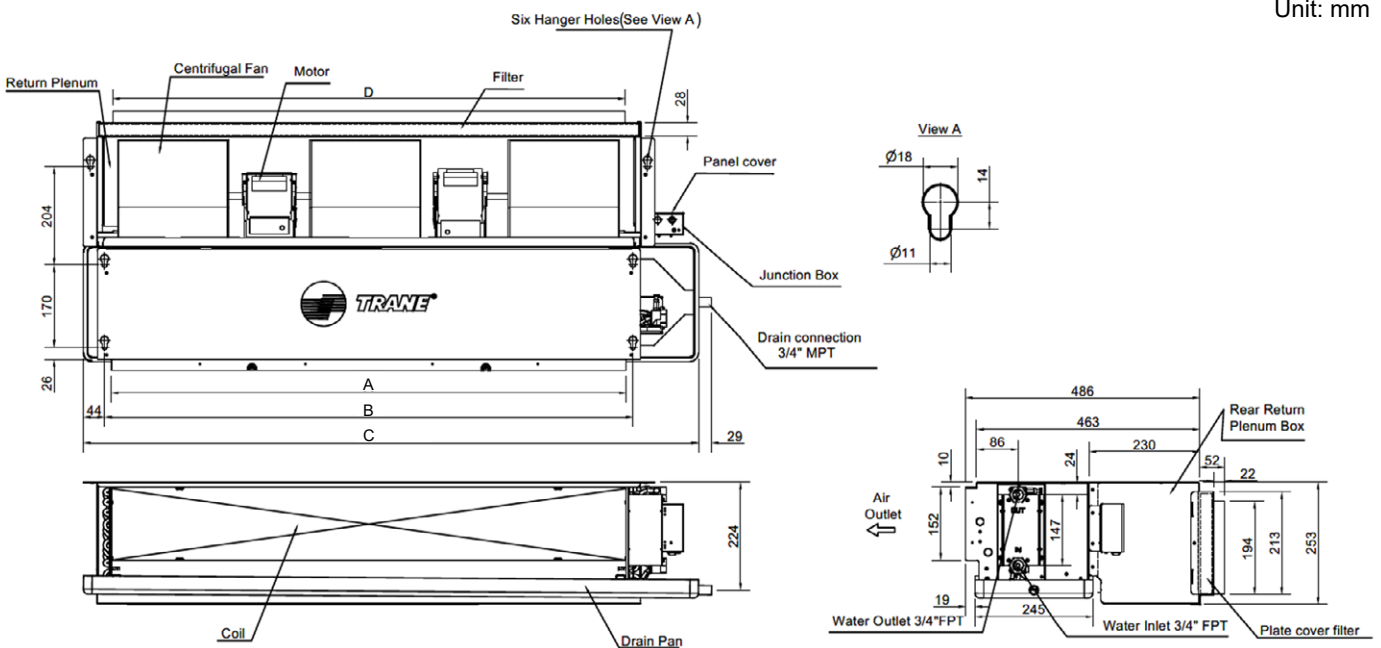
HFCF-Compact 04/06

Unit: mm



HFCF-Compact 08/10

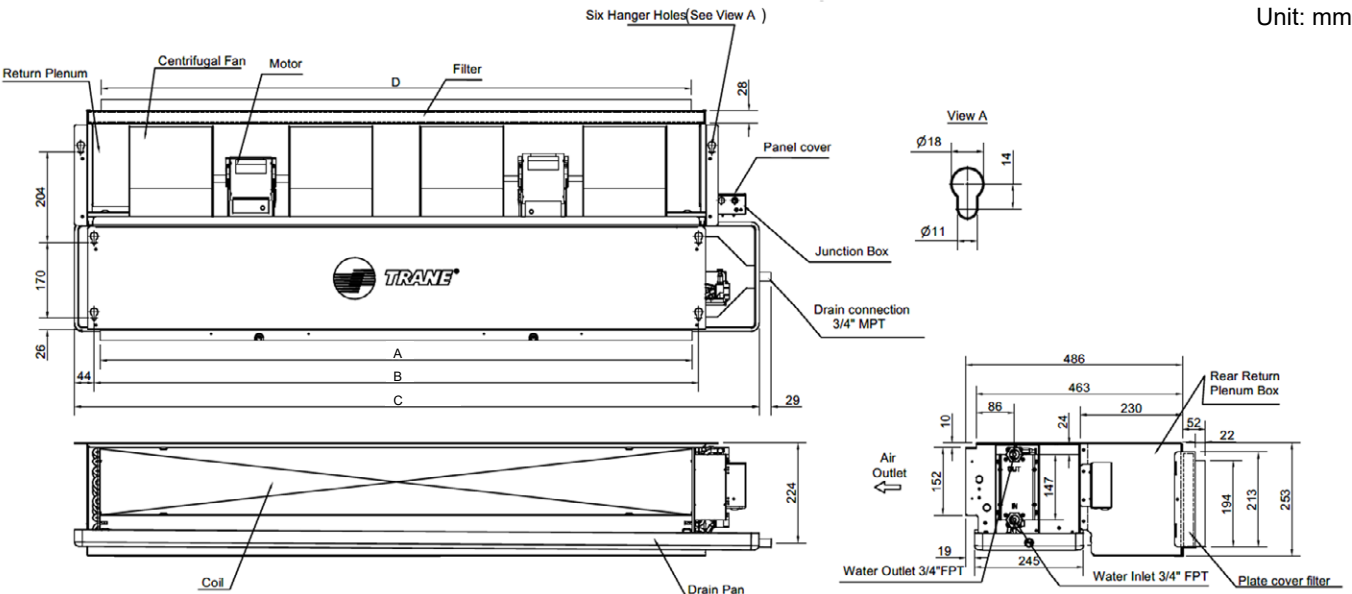
Unit: mm



Dimension Data

HFCF-Compact with rear return plenum

HFCF-Compact 12



Model	Unit Dimension (mm)				FAN QTY.	MOTOR QTY.	Weight (kg) w Plenum	
	A	B	C	D			3R	4R
HFCF-Compact 04	590	618	798	585	2	1	19.0	19.4
HFCF-Compact 06	770	798	978	765	2	1	22.2	23.2
HFCF-Compact 08	1070	1098	1283	1065	3	2	31.8	32.6
HFCF-Compact 10	1210	1238	1423	1205	3	2	34.3	35.4
HFCF-Compact 12	1330	1358	1543	1325	4	2	37.8	40.1

Motor Data

Model	Motor Type	Motor QTY.	Motor Current (A)	Motor Power (W)
HFCF-Compact 04	PSC Motor	1	0.41	38
HFCF-Compact 06	PSC Motor	1	0.65	62
HFCF-Compact 08	PSC Motor	2	0.30 / 0.54	27 / 56
HFCF-Compact 10	PSC Motor	2	0.36 / 0.69	38 / 76
HFCF-Compact 12	PSC Motor	2	0.59 / 0.59	66 / 66



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