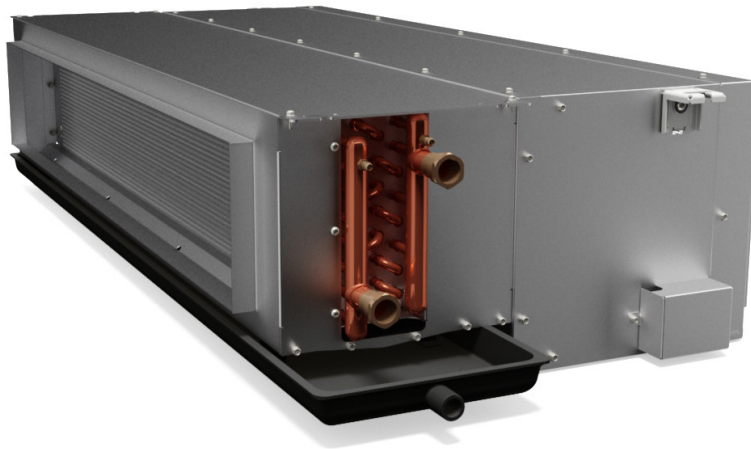


Technical Data Manual

TDM

Group: F&C
Part number: TDM CLIFC
Date: 20 July 2023

CLIFC Series Horizontal Fixed 400, 600, 800, 1000, 1200, 1300, 1600 and 2000 CFM



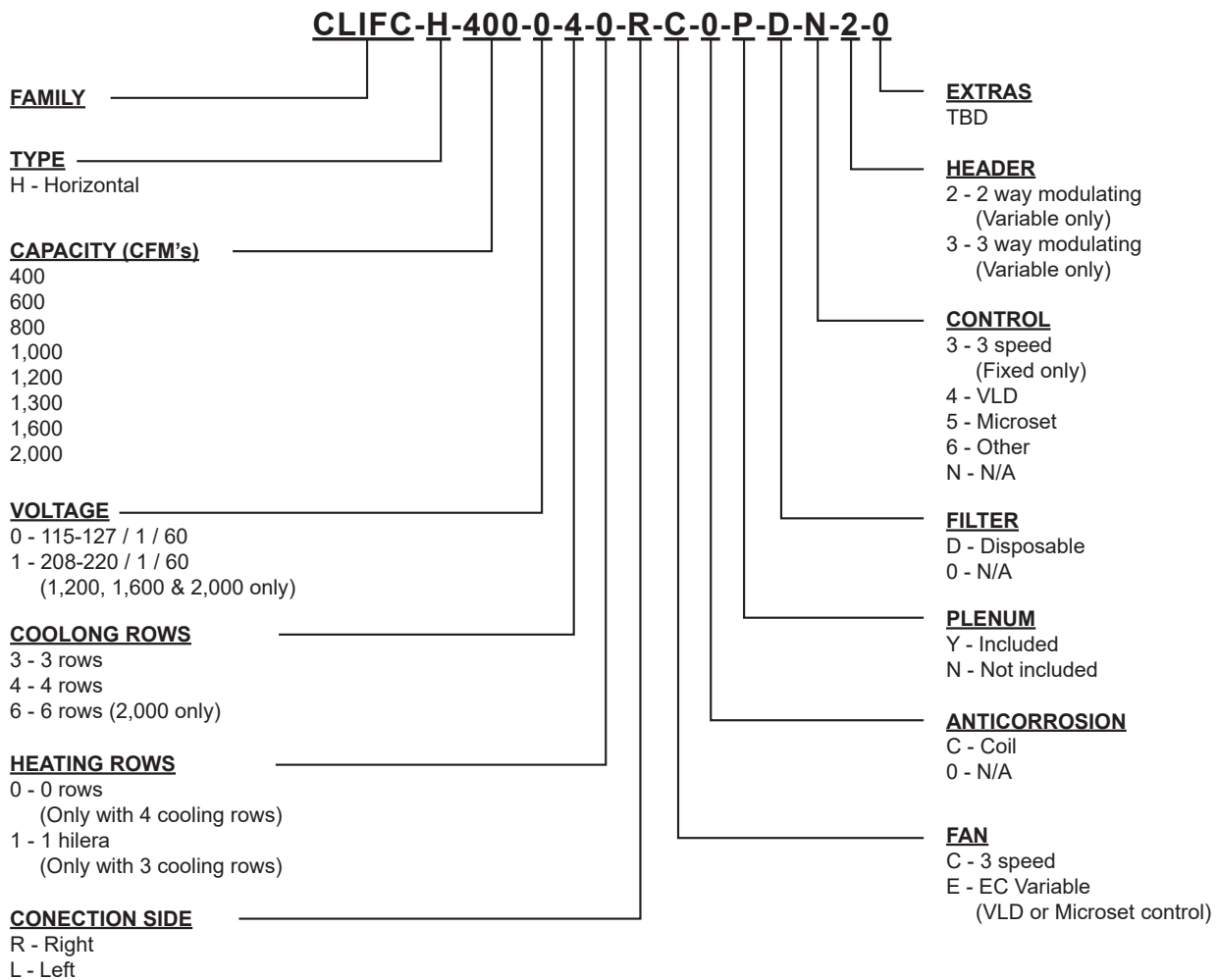
NOMENCLATURE.....	3
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Manufactured in an ISO 9001 certified facility



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NOMENCLATURE



FRAME

All F&C units are constructed of heavy-gauge, corrosion-resistant, corrosion-resistant galvanized steel. All units are approved for installation with "0" clearance to combustible material.

MOTORS

Standard motors are of the PSC type, permanently lubricated with internal thermal overload protection.

PLENUM

The return air chambers are made of galvanized steel insulated with high density anti-bacterial and anti-acoustic foam.

CONDENSATE TRAYS

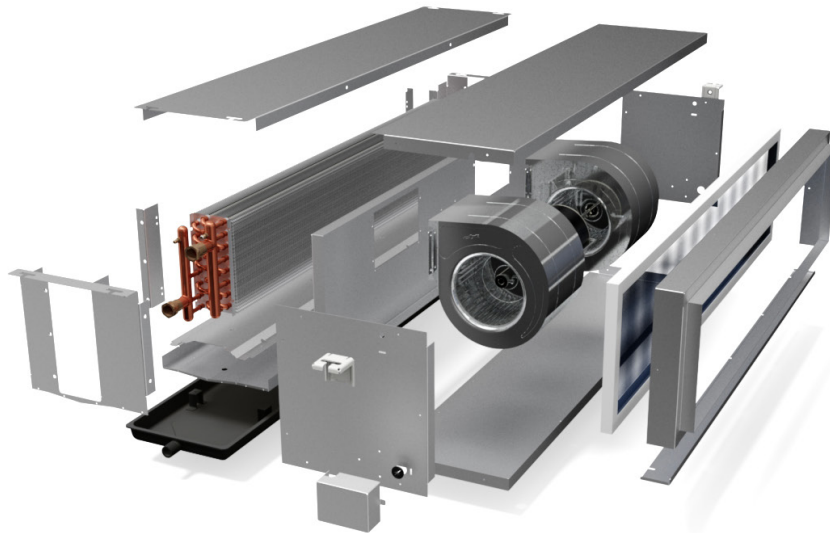
The positive inclined drainage trays are made of galvanized steel, coated on the inside surface with an anti-bacterial and anti-fungal coating.

COIL

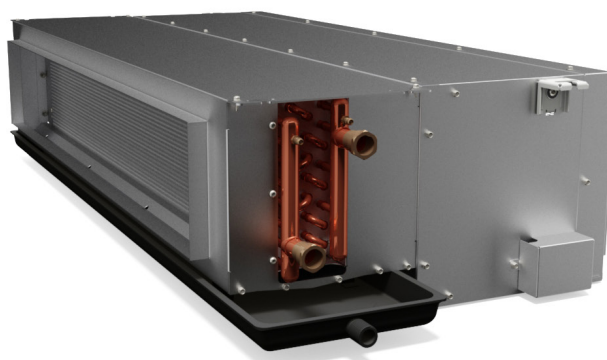
Constructed with seamless copper tubes and headers. Tube tubes are mechanically expanded in corrugated aluminum fin material for permanent bonding of primary to secondary surface. Coils are tested underwater at 350 PSI for operation at 300 PSI. Coils include manual air vents.

FAN WHEELS

They are double wide, double inlet (DWDI) forward curved, centrifugal type. The wheels are statically and dynamically balanced for smooth and quiet operation. The casing is constructed of heavy-gauge galvanized steel with die-cast inlet cones.



TECHNICAL INFORMATION



General Information	
Power supply [V/Φ>/Hz]	110 / 1 / 60
Fan	3 Velocidades
Amperage [A]	0.80
Coil	CU-AL
Static pressure [in H ₂ O]	0.200
Noise level at 1m [dB]	53.8 / 51.5 / 48.9
Total air flow [cfm]	400.00
Motor power consumption [W]	104.0
Height above sea level [ft]	
Weight [lbs]	69

Model description		
Famiy	CLIFC	CLIFC
Position	H	Horizontal
Capacity [cfm]	400	400
Power supply [V/Φ>/Hz]	0	110 / 1 / 60
Cooling rows	4	4
Heating rows	0	0
Connection side	R	Right
Fan type	C	3 Speeds
Corrosion protection	0	None
Plenum	P	With plenum
Filter	D	Disposable
Electrial resistance	N	N/A

Cooling Mode	
Total capacity [Btu/h]	14,980
Sensible capacity [Btu/h]	10,450
Inlet air temperature DB [°F]	80.00
Inlet air temperature WB [°F]	67.00
Outlet air temperature DB [°F]	56.34
Outlet air temperature WB [°F]	54.96
Water injection temperature [°F]	45.00
Water return temperature [°F]	55.00
Water flow [gpm]	2.99
Water pressure drop [ft H ₂ O]	9.68
Rows	4
Connection type [Copper]	1/2"

Note: The document is subject to change without notice.

Note: For more technical information, please refer to the "Software Selection" page.

Standar Features

- Limited warranty Comfort Flex units.
- 1 year warranty on functional parts of the equipment.

MOTOR MODELS

Models	HP	RPM	Amp	Voltage	Watts	Motor diameter
FC-400	1/12	1250	0.8	110	35	4.42"
FC-600	1/8	1200	1.9	110	90	4.84"
FC-800	1/5	1250	2.4	110	120	4.84"
FC-1000	1/4	1200	4.2	110	185	5.62"
FC-1200/1300	1/3	1200	5.5	110	250	5.62"

FAN&COILS WITH MOTOR NOISE LEVEL MEASUREMENTS

These measurements were taken with two Decibelimeters and the Plenums on the Return side had NO Interior Insulation.

Fan&Coil	Speed	CFM (Balometer) SLP	Corrected CFM Sea Level	Noise Level Decibelimeter Green	Noise Level Decibelimeter White	RPM	Fan	Dimension Pan	Watts Motor	Full Load (A)	Amps
400	Hi	529	425	53.8	52.1	1,402	SYP 145/130J	932 x 632	35	0.8	0.8
	Mid	461	370	51.5	50.2	1,278					0.7
	Low	404	324	48.9	47.5	1,150					0.7
600	Hi	696	559	55.3	53.4	1,575	SYP 145/190J	1033 x 733	90	1.9	1.7
	Mid	622	499	53.0	51.2	1,457					1.1
	Low	569	457	51.0	49.6	1,360					1.0
800	Hi	809	649	56.2	55.2	1,560	SYP 150/240J	1186 x 886	120	2.3	2.0
	Mid	757	607	54.6	53.2	1,470					1.5
	Low	698	560	52.6	51.4	1,352					1.3
1000	Hi	1,088	873	60.5	59.8	1,539	SYP 180/170J	1338 x 1038	185	4.2	3.6
	Mid	988	793	59.0	57.9	1,400					2.4
	Low	859	689	54.8	53.8	1,232					1.9
1200-1300	Hi	1,256	1,008	62.4	61.5	1,551	SYP 180/200J	1491 x 1191	250	5.5	4.2
	Mid	1,155	927	60.5	59.6	1,416					2.8
	Low	1,018	817	57.4	56.0	1,259					2.2

These readings were taken with two Decibel Meters and the Plenums on the SI Return side have Interior Insulation.

Fan&Coil	Speed	CFM (Balometer) SLP	Corrected CFM Sea Level	Noise Level Decibelimeter Green	Noise Level Decibelimeter White	RPM	Fan	Dimension Pan	Watts Motor	Full Load (A)	Amps
400	Hi	529	425	53.2	51.3	1,402	SYP 145/130J	932 x 632	35	0.8	0.8
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	Low	404	324	48.2	46.3	1,150					0.7
600	Hi	696	559	54.6	52.8	1,575	SYP 145/190J	1033 x 733	90	1.9	1.7
	Mid	622	499	52.8	51.0	1,457					1.1
	Low	569	457	50.9	49.1	1,360					1.0
800	Hi	809	649	55.4	53.6	1,560	SYP 150/240J	1186 x 886	120	2.3	2.0
	Mid	757	607	53.8	52.2	1,470					1.5
	Low	698	560	51.9	50.4	1,352					1.3
1000	Hi	1,088	873	59.6	58.1	1,539	SYP 180/170J	1338 x 1038	185	4.2	3.6
	Mid	988	793	57.3	55.5	1,400					2.4
	Low	859	689	54.0	52.3	1,232					1.9
1200	Hi	1,256	1,008	61.6	59.8	1,551	SYP 180/200J	1491 x 1191	250	5.5	4.2
	Mid	1,155	927	59.7	57.9	1,416					2.8
	Low	1,018	817	56.6	55.1	1,259					2.2

ELECTRICAL DATA

	Speed	in Wg	CFM	dBA	W max	i max (A)
F&C Fix 400	H	0	425	54.1	65	0.8
F&C Fix 600	H	0	559	52.6	168	1.9
F&C Fix 800	H	0	649	53.3	224	2.3
F&C Fix 1000	H	0	873	58.7	345	4.2
F&C Fix 1200	H	0	1200	60.2	972	11
F&C Fix 1300	H	0	1008	60.2	476	5.5

DESING PARAMETERS

Figure 1. F&C Fixed 400 CFM Right Side

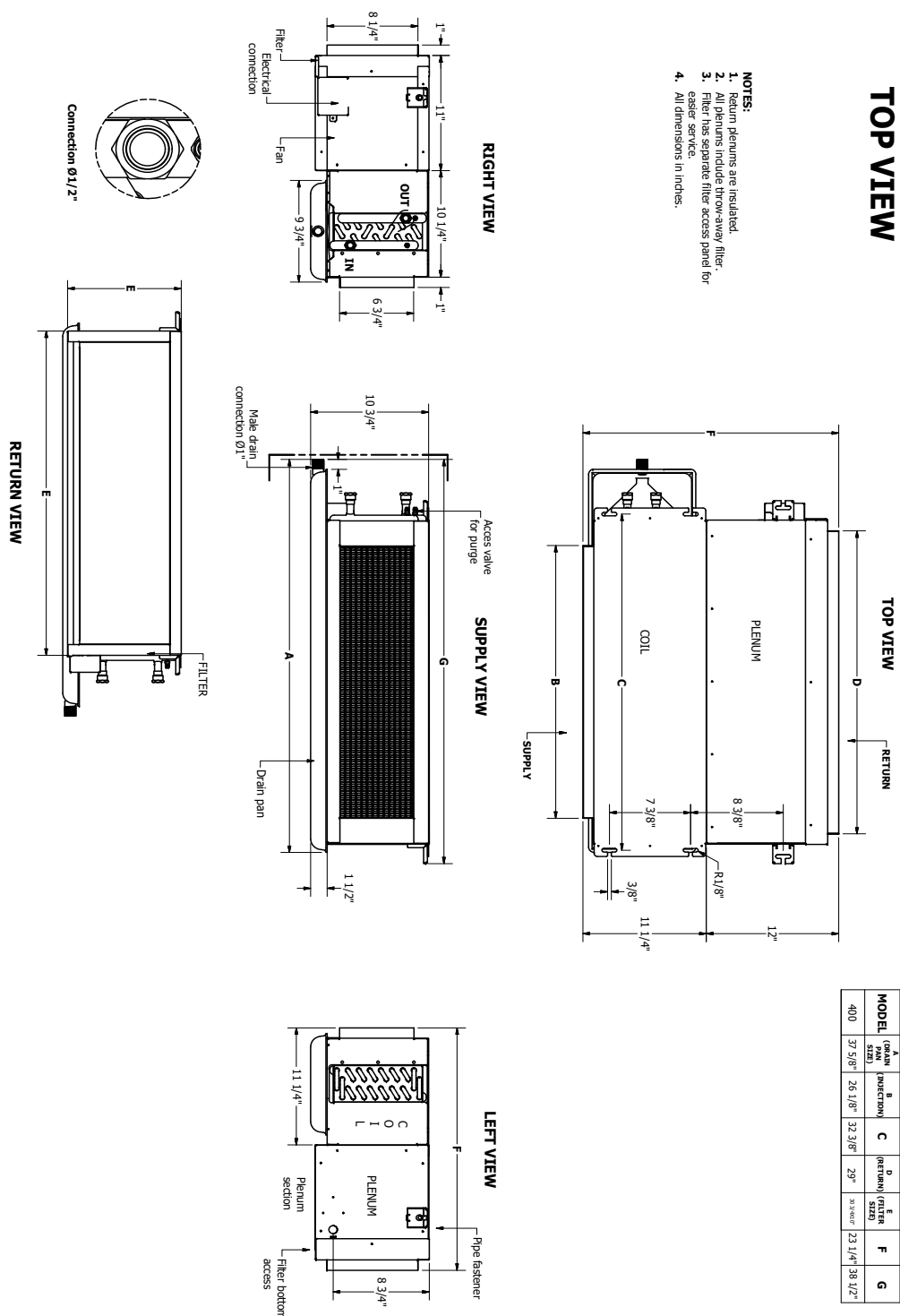
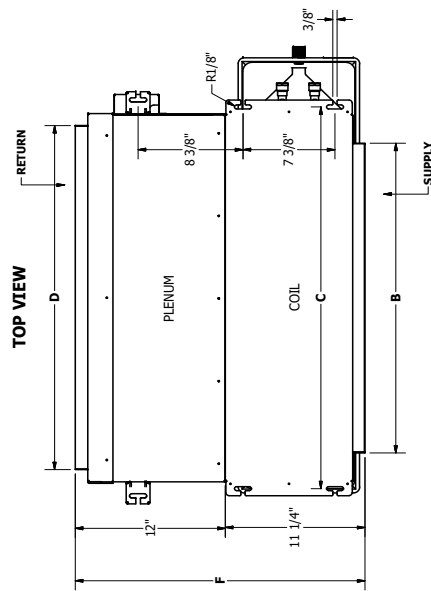


Figure 2. F&C Fixed 400 CFM Left Side

GENERAL DIMENSIONS

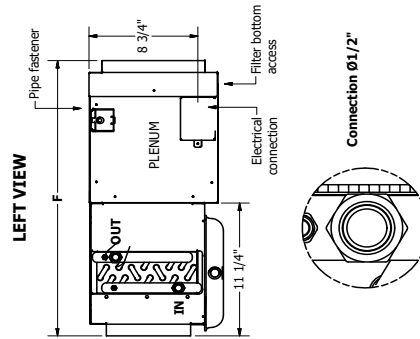
MODEL	A (RAIN SIZE)	B (INJECTION)	C	D (RETURN)	E (FILTER SIZE)	F	G
400	37 5/8"	26 1/8"	32 3/8"	29"	39 3/4"	23 1/4"	38 1/2"



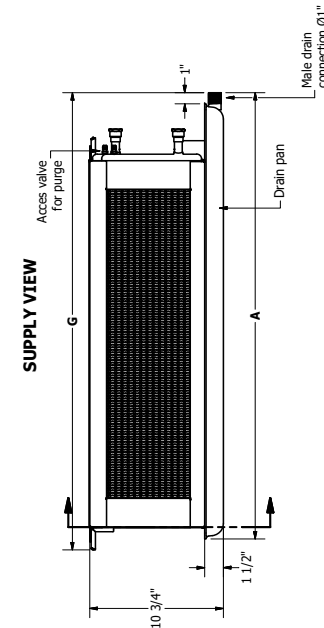
TOP VIEW

NOTES:

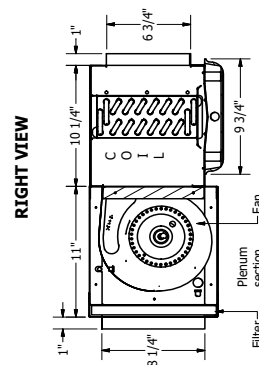
1. Return plenums are insulated.
2. All plenums include throw-away filter.
3. Filter has separate filter access panel for easier service.
4. All dimensions in inches.



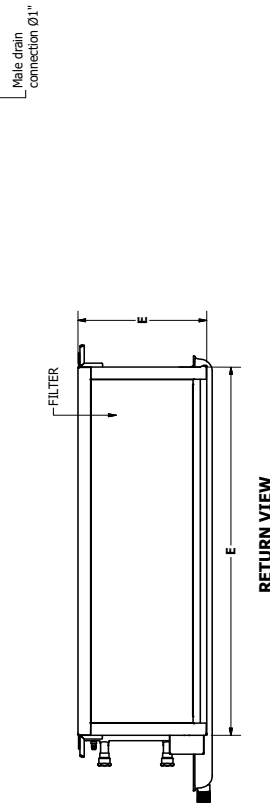
LEFT VIEW



SUPPLY VIEW



RIGHT VIEW



RETURN VIEW

DESING PARAMETERS

Figure 3. F&C Fixed 600 CFM Right Side

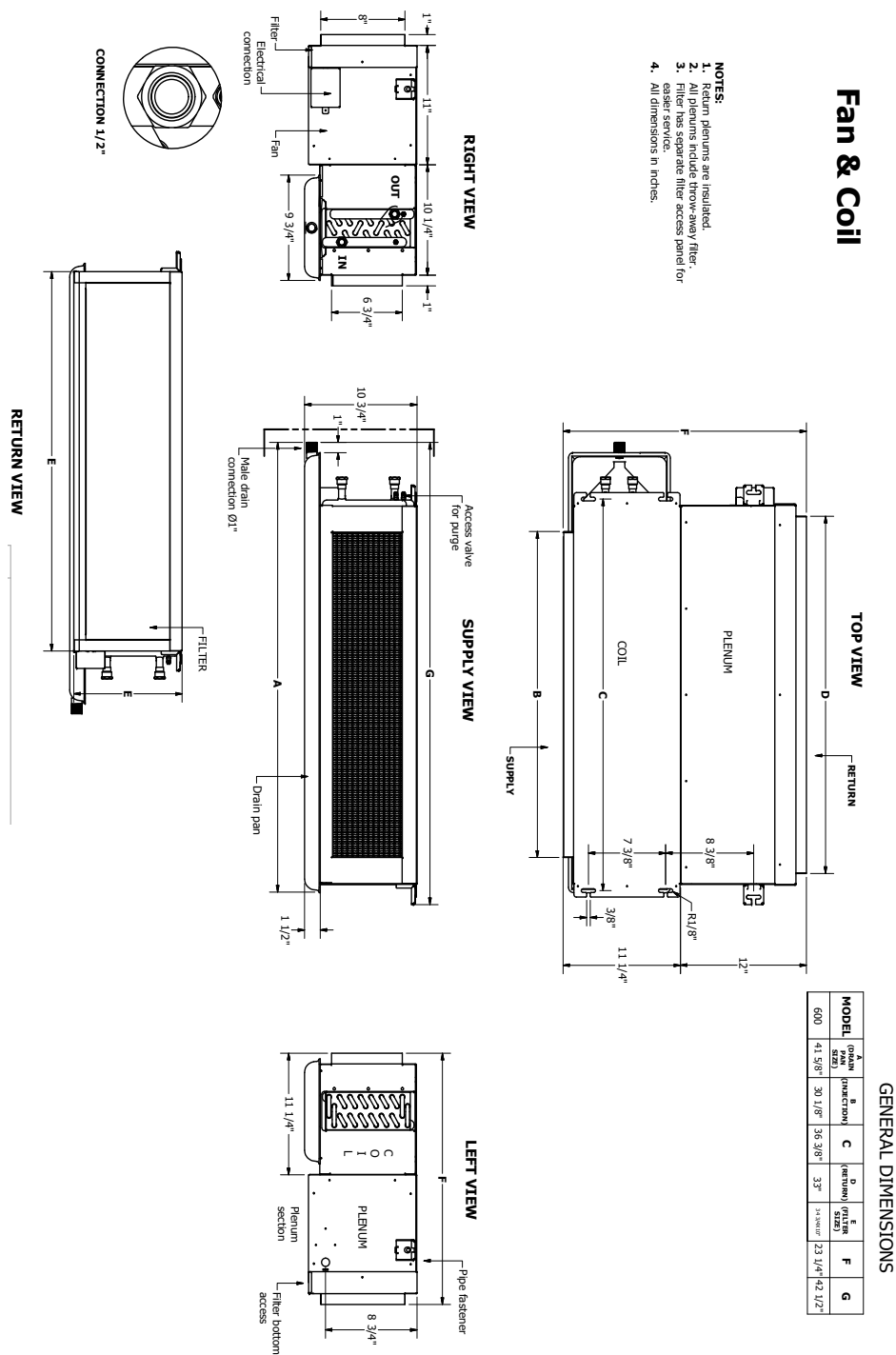


Figure 4. F&C Fixed 600 CFM Left Side

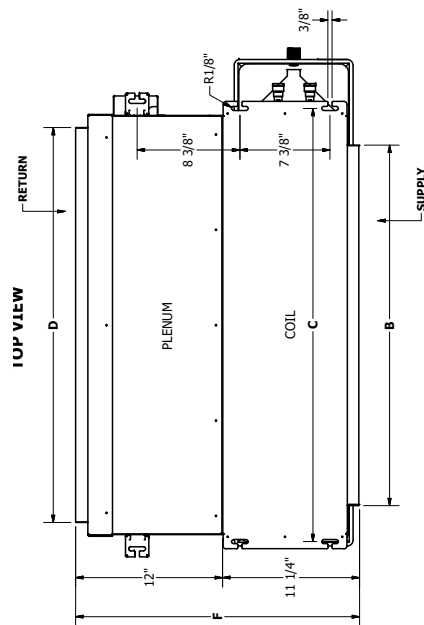
GENERAL DIMENSIONS

MODEL	A (DRAIN PAN SIZE)	B (INJECTION)	C (INJECTION)	D (RETURN)	E (FILTER SIZE)	F	G
600	41 5/8"	30 1/8"	35 3/8"	33"	23 1/4"	42 1/2"	

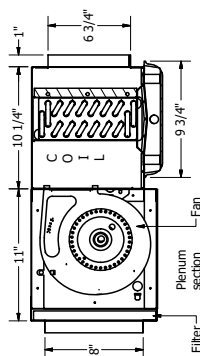
Fan & Coil

NOTES:

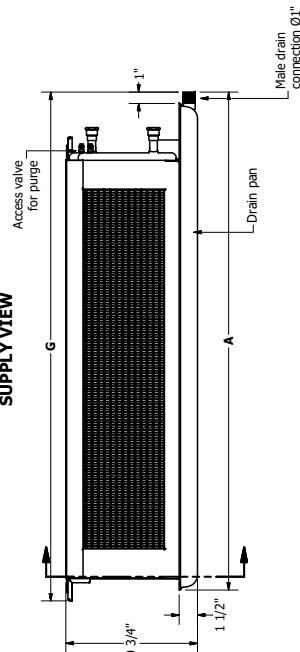
1. Return plenums are insulated.
2. All plenums include throw-away filter.
3. Filter has separate filter access panel for easier service.
4. All dimensions in inches.



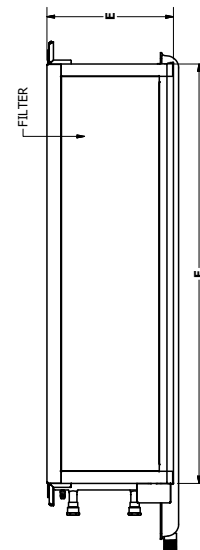
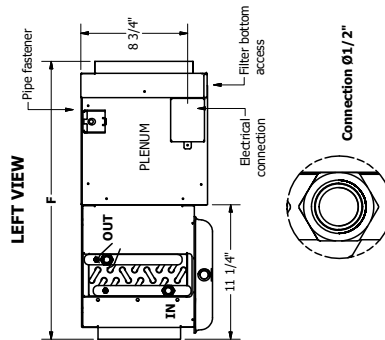
RIGHT VIEW



SUPPLY VIEW



LEFT VIEW



RETURN VIEW

DESING PARAMETERS

Figure 5. F&C Fixed 800 CFM Right Side

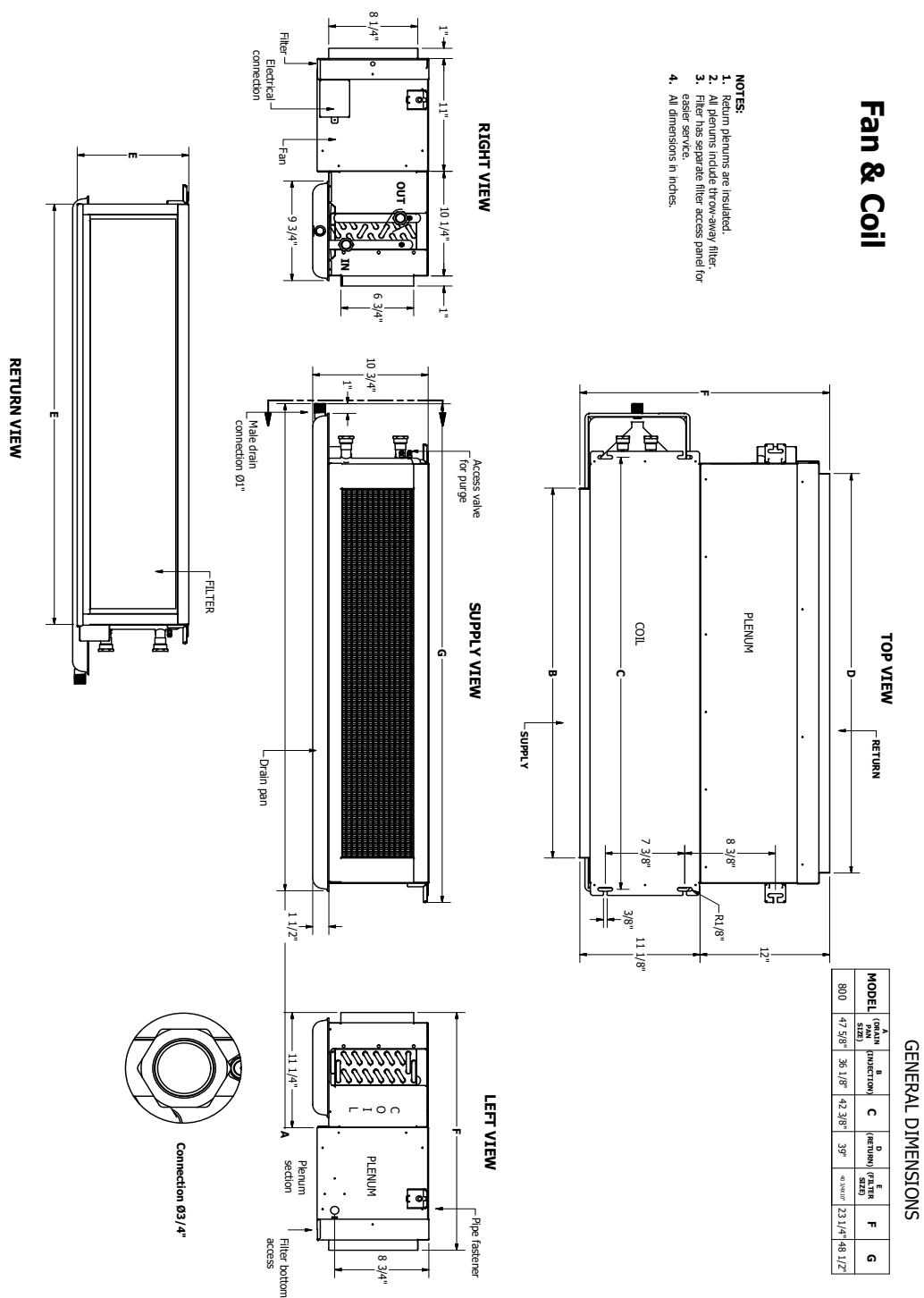
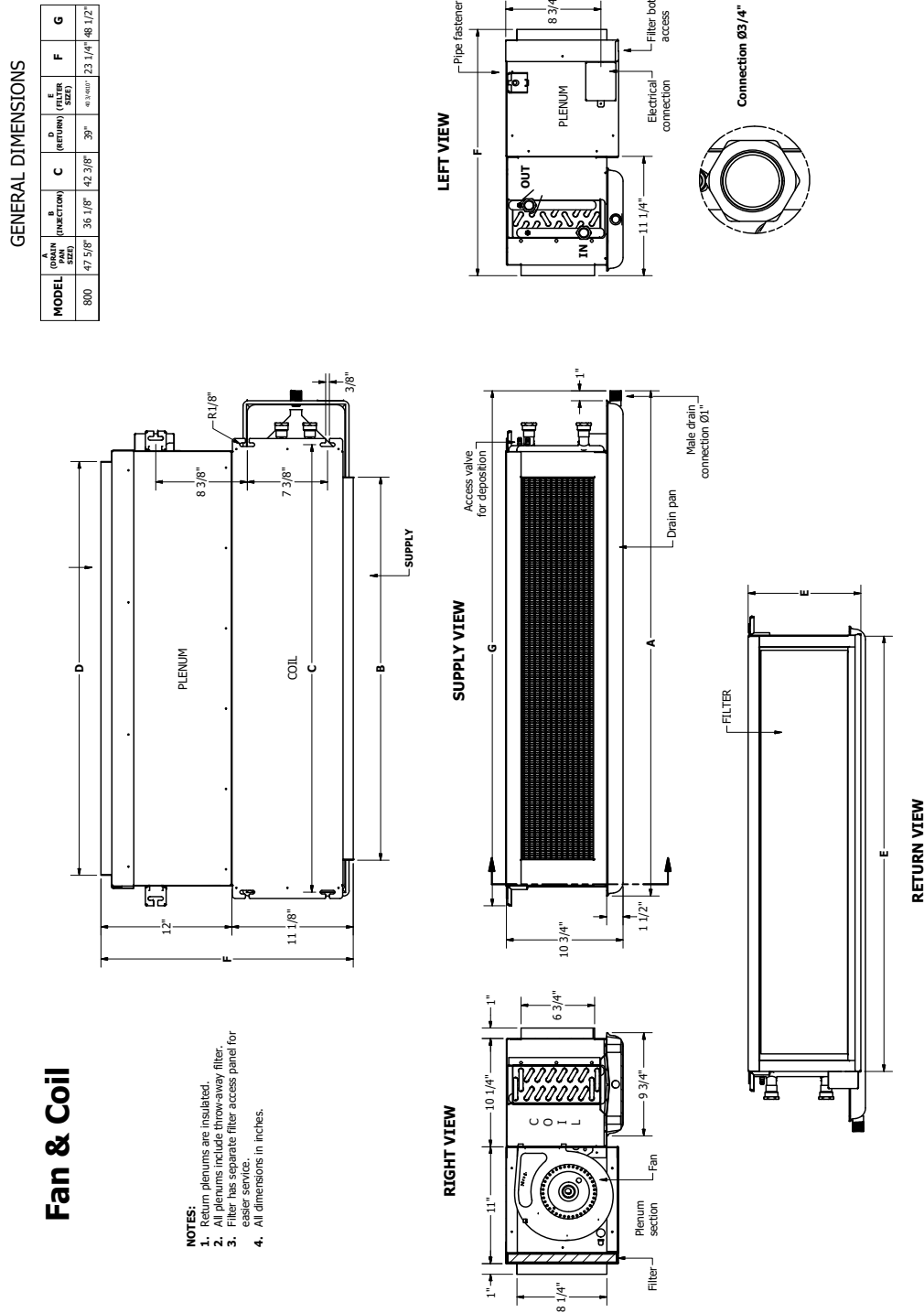


Figure 6. F&C Fixed 800 CFM Left Side



DESIGN PARAMETERS

Figure 7. F&C Fixed 1000 CFM Right Side

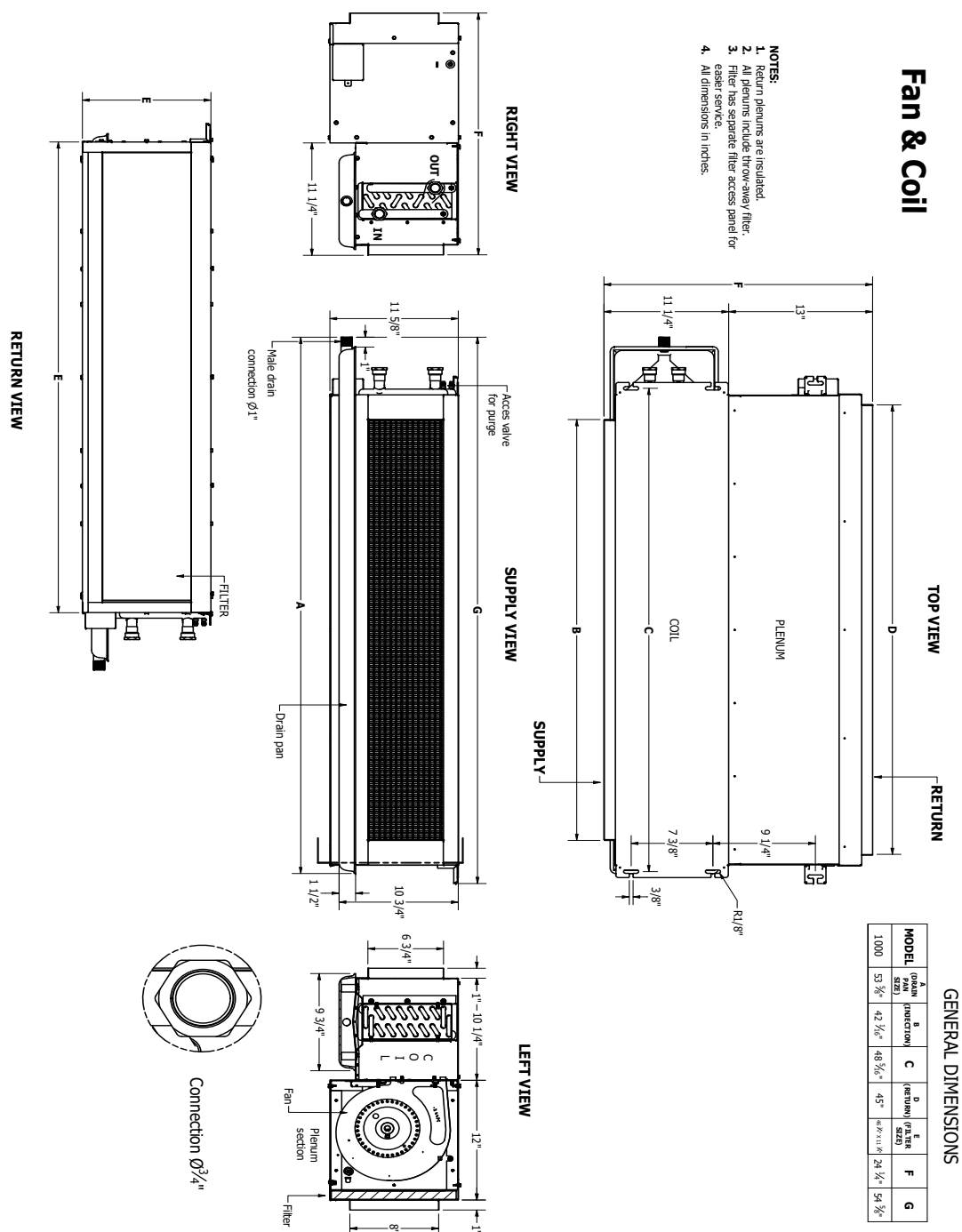
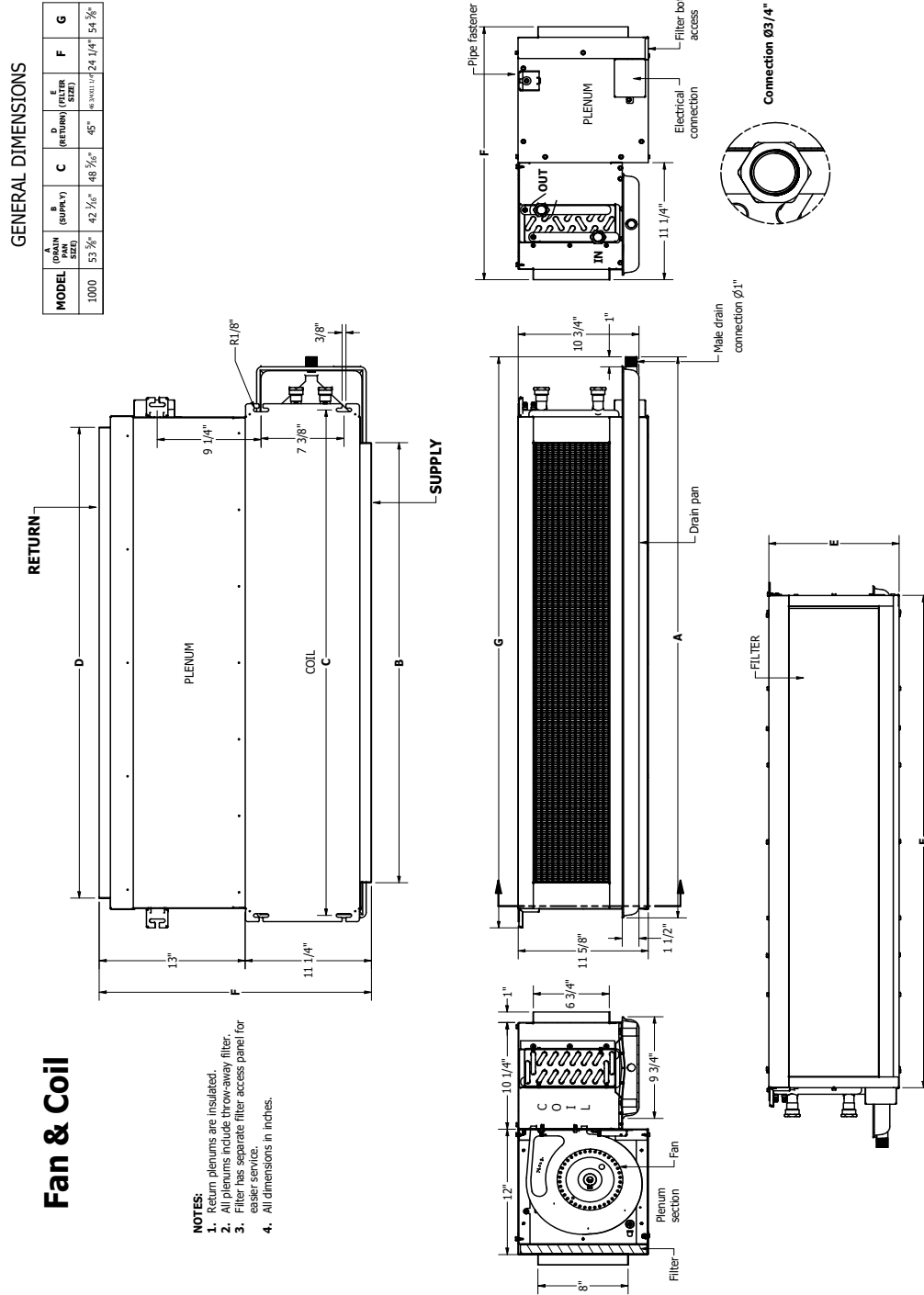


Figure 8. F&C Fixed 1000 CFM Left Side



DESIGN PARAMETERS

Figure 9. F&C Fixed 1200-1600 CFM Right Side

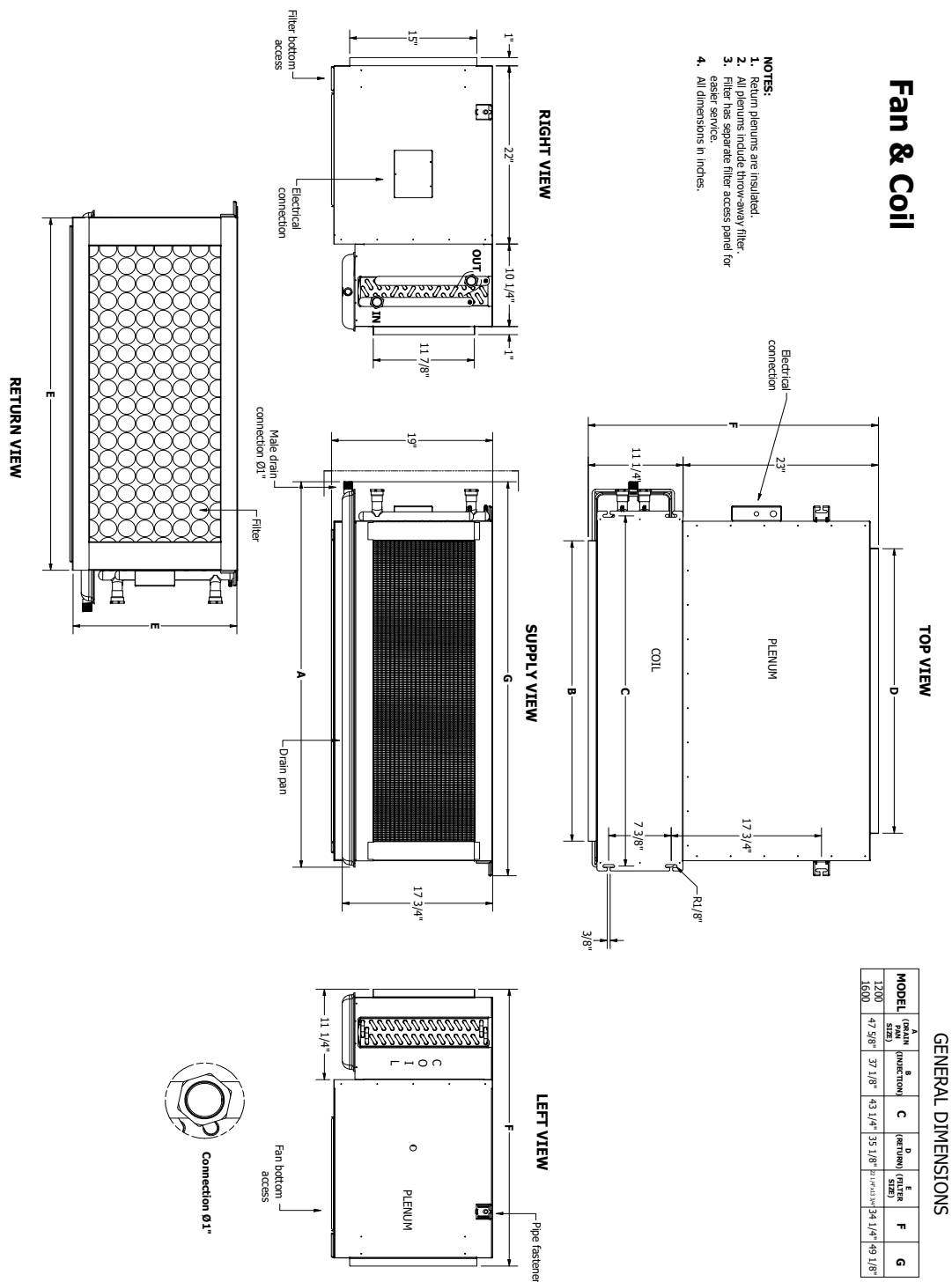
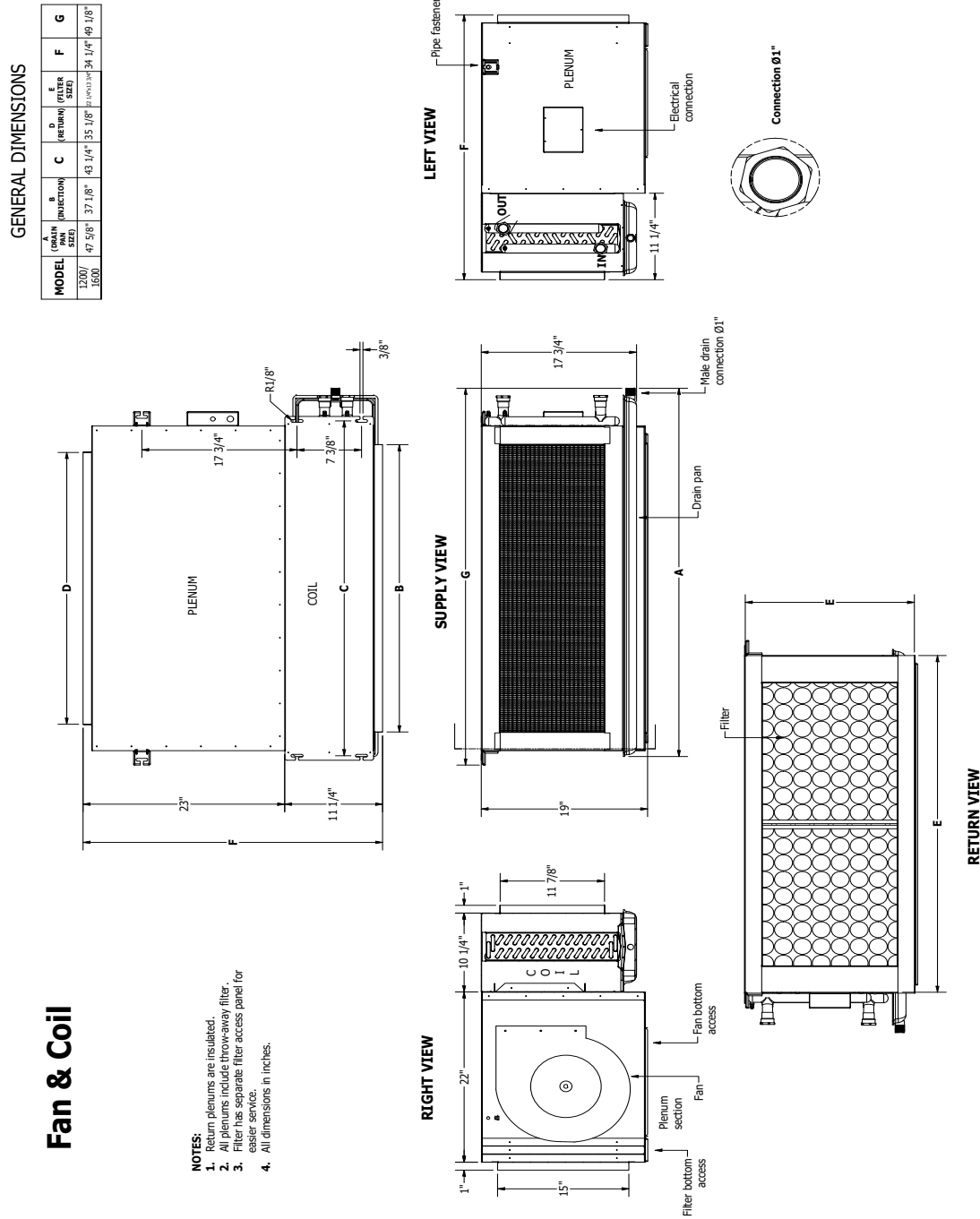


Figure 10. F&C Fixed 1200-1600 CFM Left Side



Fan & Coil

TOP VIEW

MODEL	A (GRAB BAR SIZE)	B (EXHAUSTION)	C (RETURN)	D (FILTER SIZE)	E (PIPE DIA.)	F (60 1/2")
1300	59 5/8"	48"	54 1/4"	51"	24 1/4"	60 1/2"

NOTES:

- Return plenums are insulated.
- All plenums include throw-away filter.
- Filter has separate filter access panel for easier service.
- All dimensions in inches.

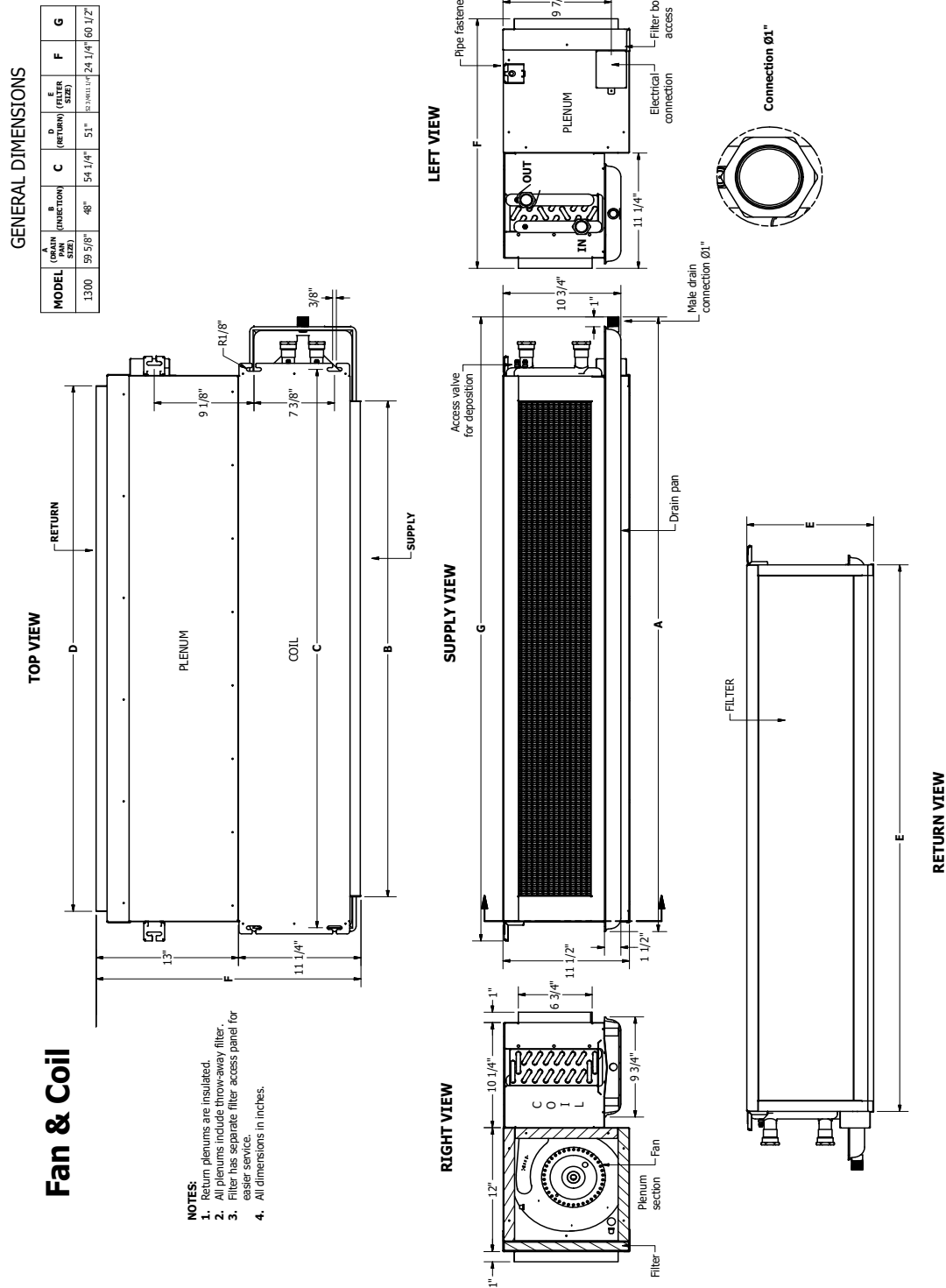
RIGHT VIEW

SUPPLY VIEW

LEFT VIEW

RETURN VIEW

Figure 12. F&C Fixed 1300 CFM Left Side



DESIGN PARAMETERS

Figure 13. F&C Fixed 2000 CFM Right Side

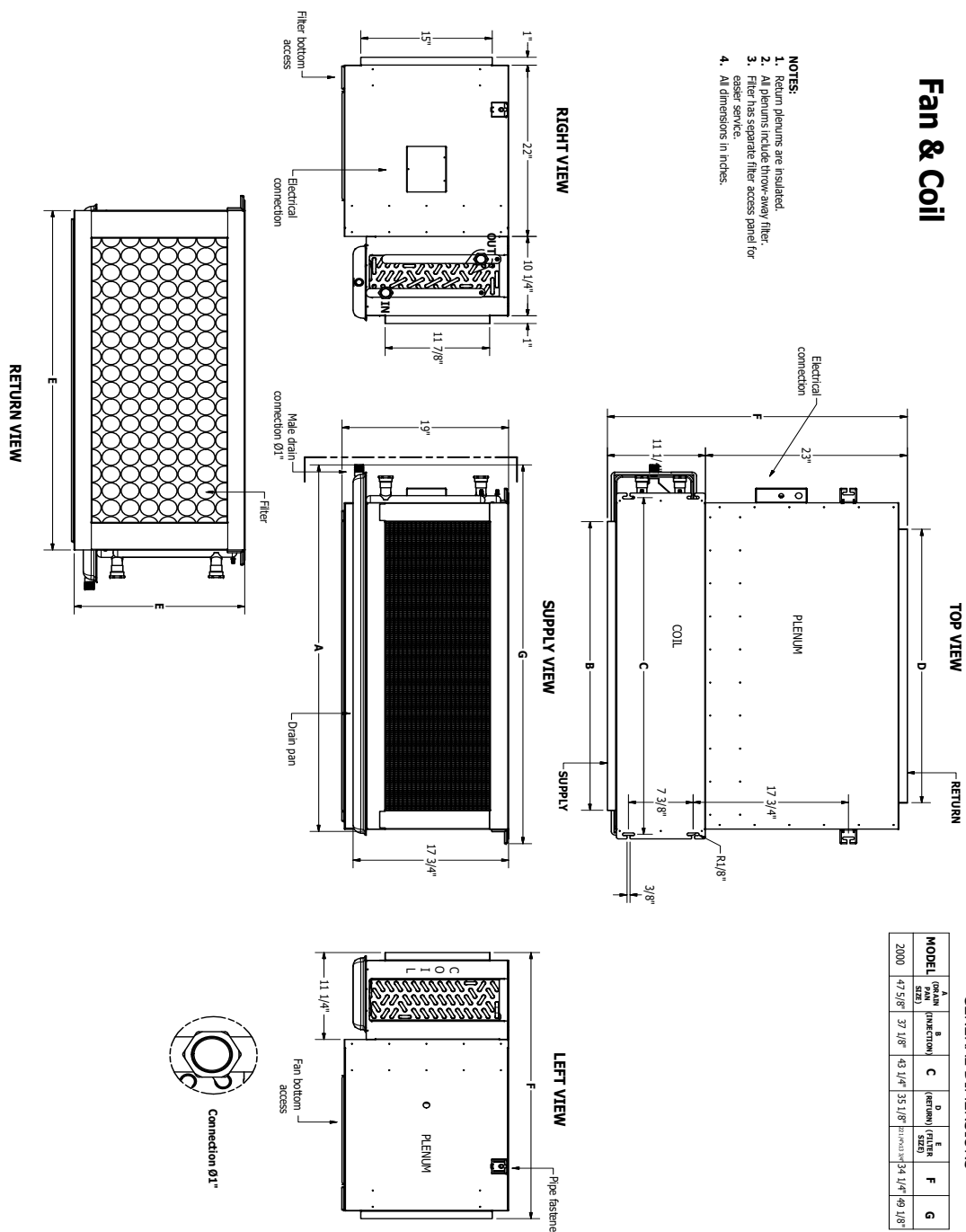
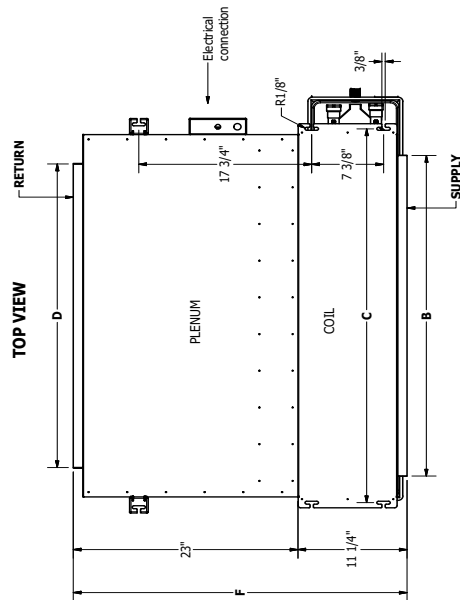


Figure 14. F&C Fixed 2000 CFM Left Side

GENERAL DIMENSIONS

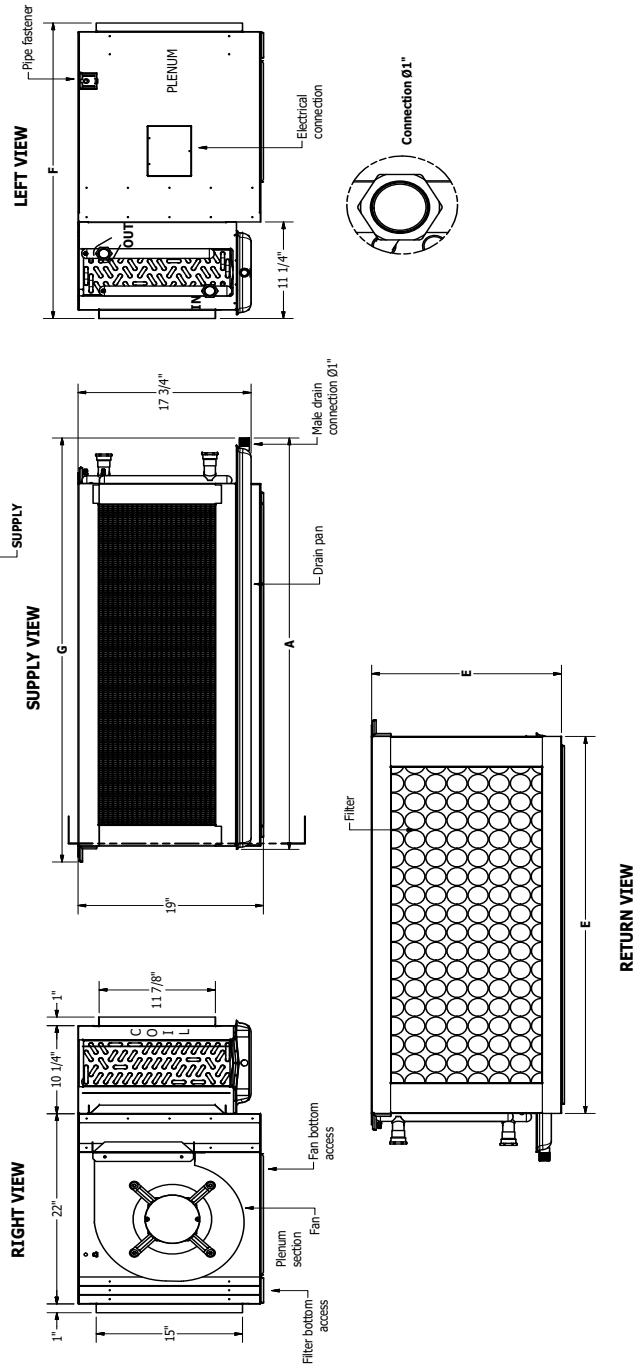
MODEL	A (DRAIN PAN SIZE)	B (RETURN) SIZE	C (RETURN) SIZE	D (RETURN) SIZE	E (RETURN) SIZE	F	G
2000	47 5/8"	37 1/8"	43 1/4"	35 1/8"	21 1/2"	34 1/4"	49 1/8"



Fan & Coil

NOTES:

1. Return plenums are insulated.
2. All plenums include throw-away filter.
3. Filter has separate filter access panel for easier service.
4. All dimensions in inches.



DESING PARAMETERS

Figure 15. F&C Fixed 400 right side without plenum

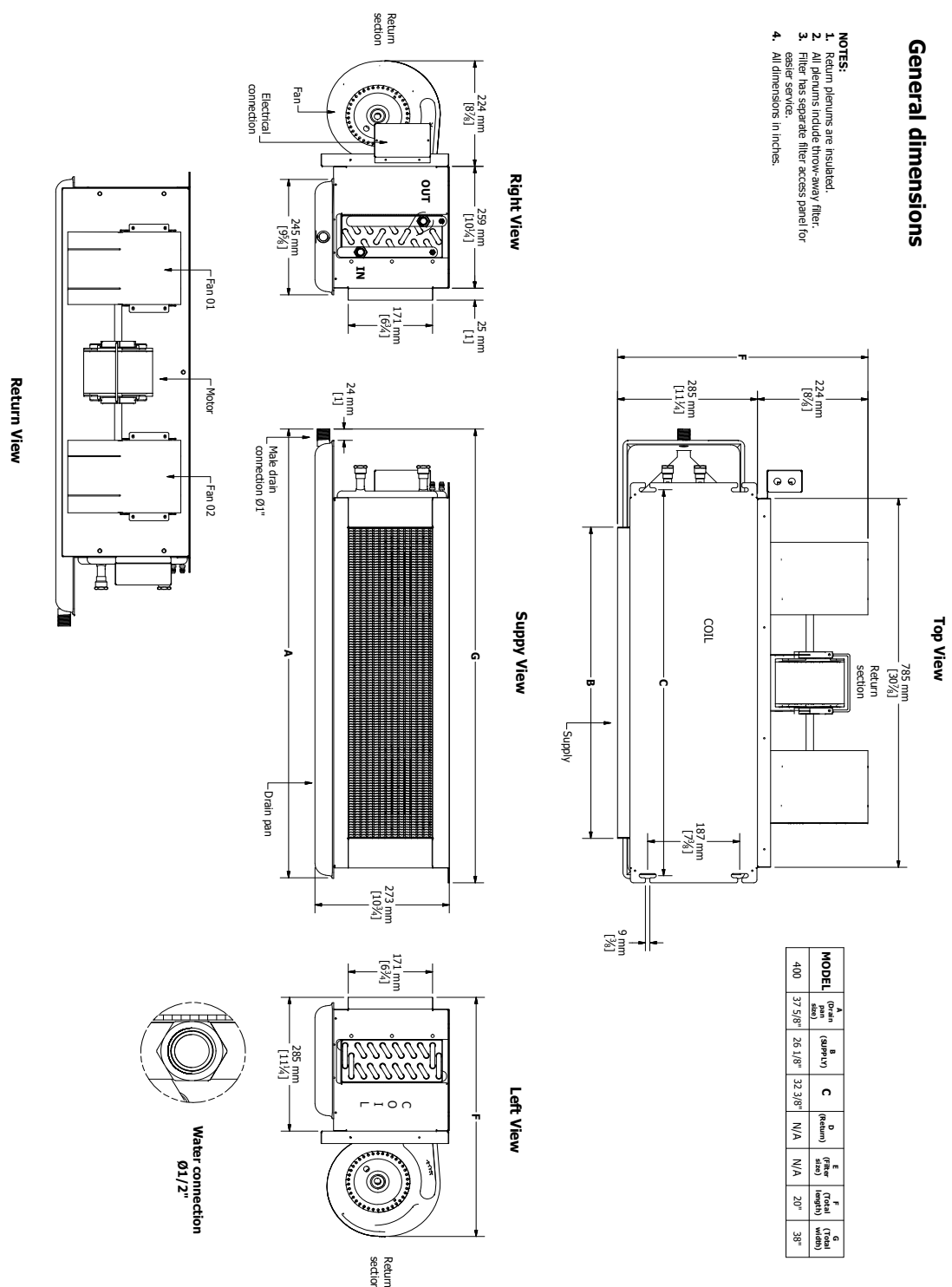
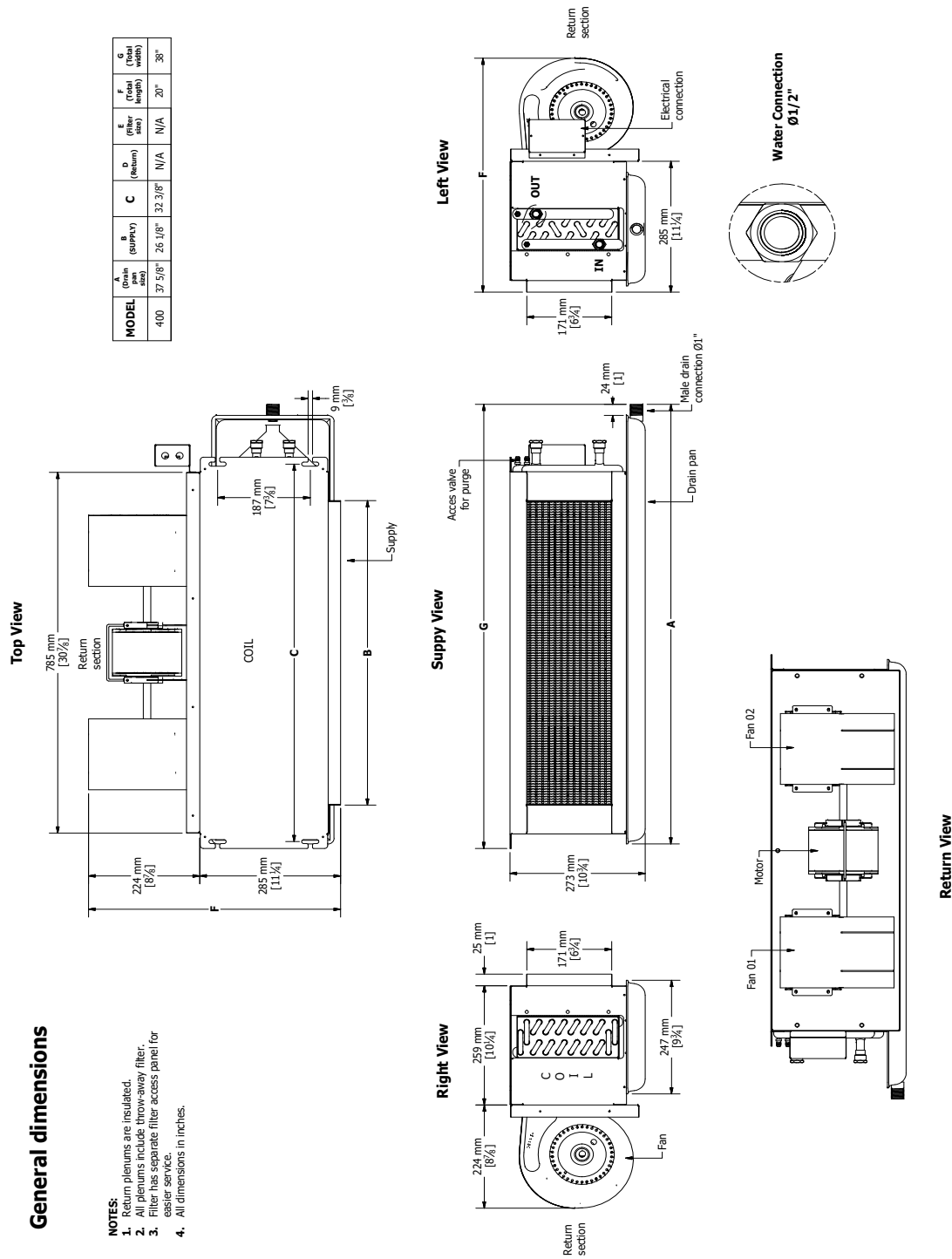


Figure 16. F&C Fixed 400 left side without plenum



DESING PARAMETERS

Figure 17. F&C Fixed 600 right side without plenum

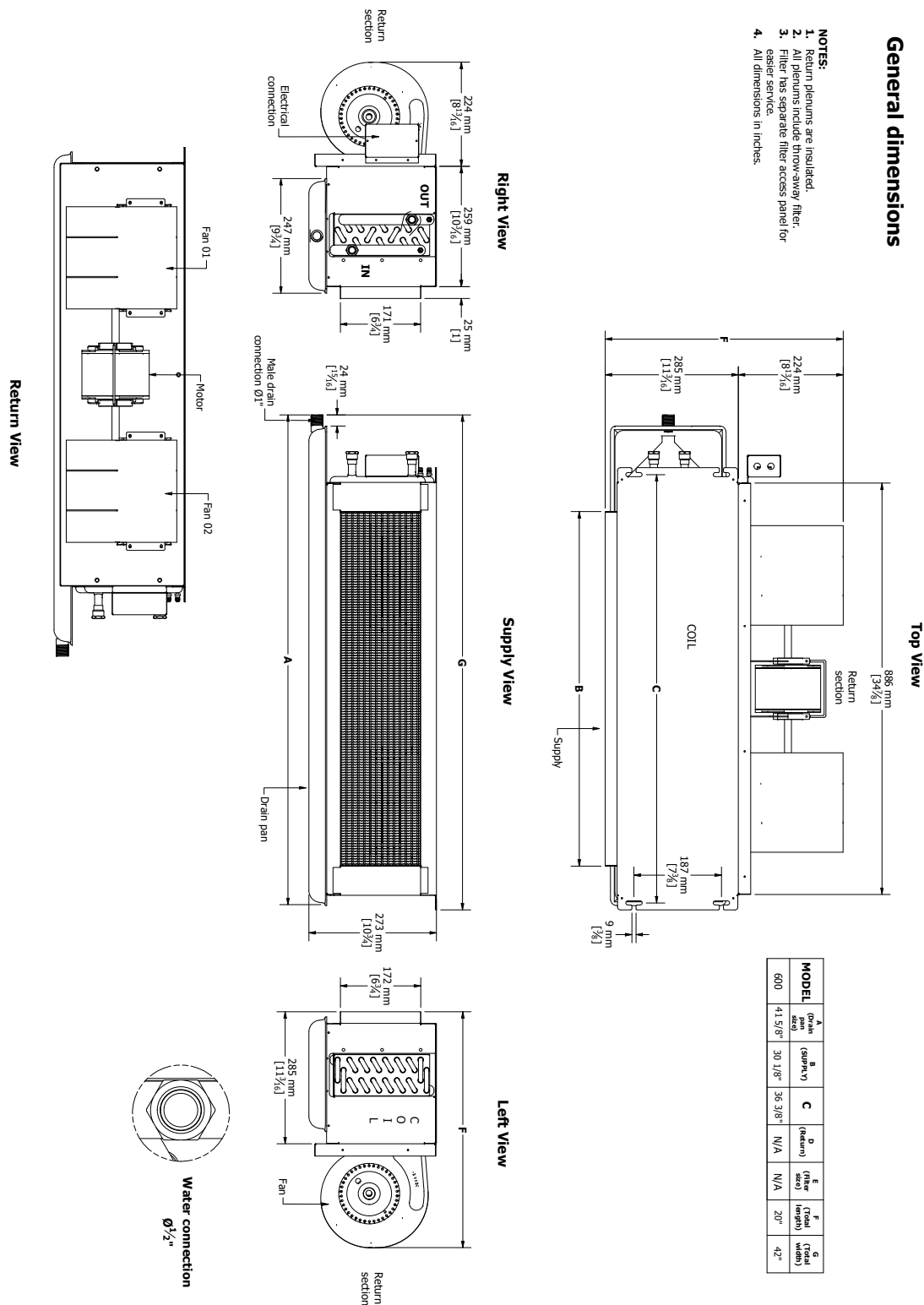
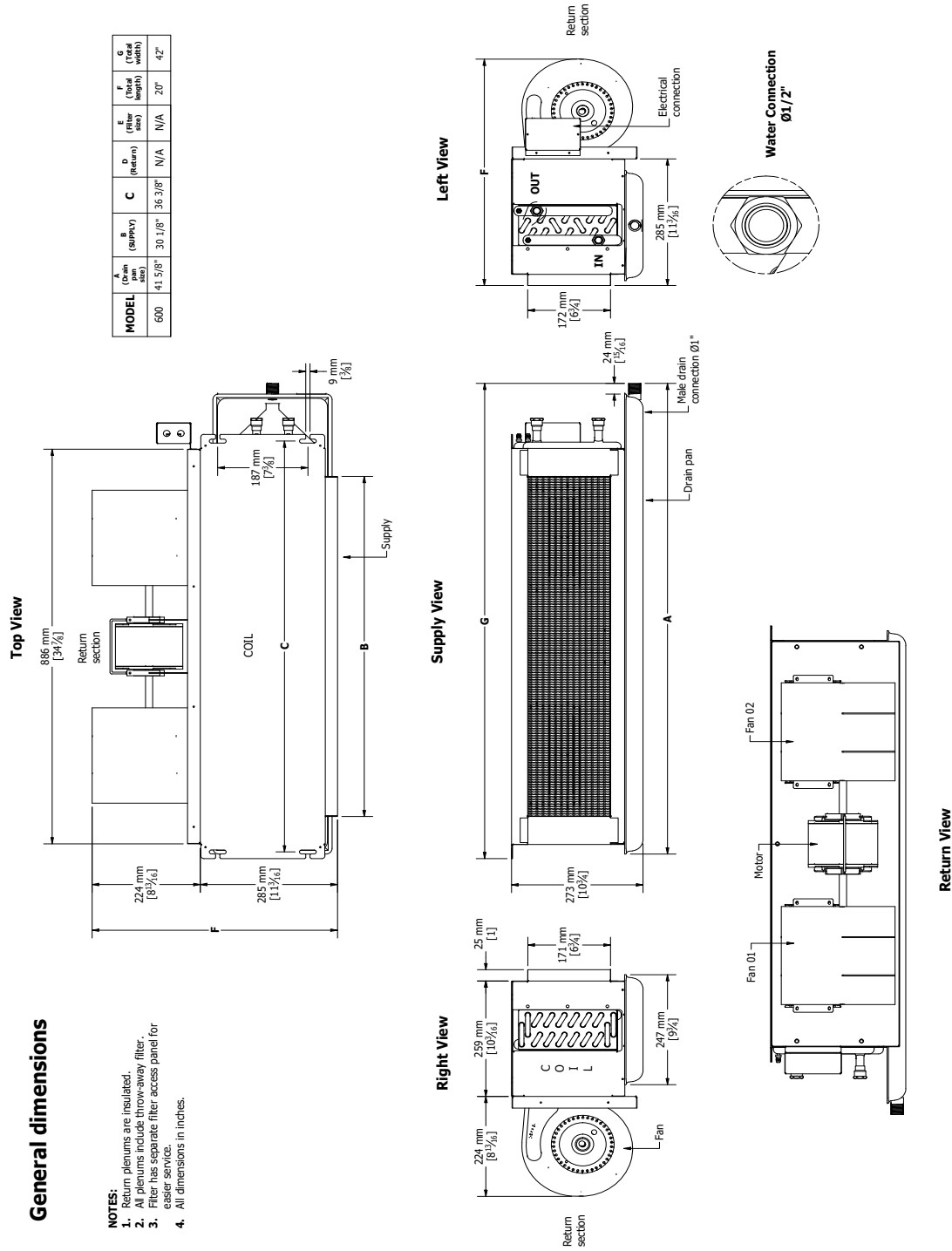


Figure 18. F&C Fixed 600 left side without plenum



DESIGN PARAMETERS

Figure 19. F&C Fixed 800 right side without plenum

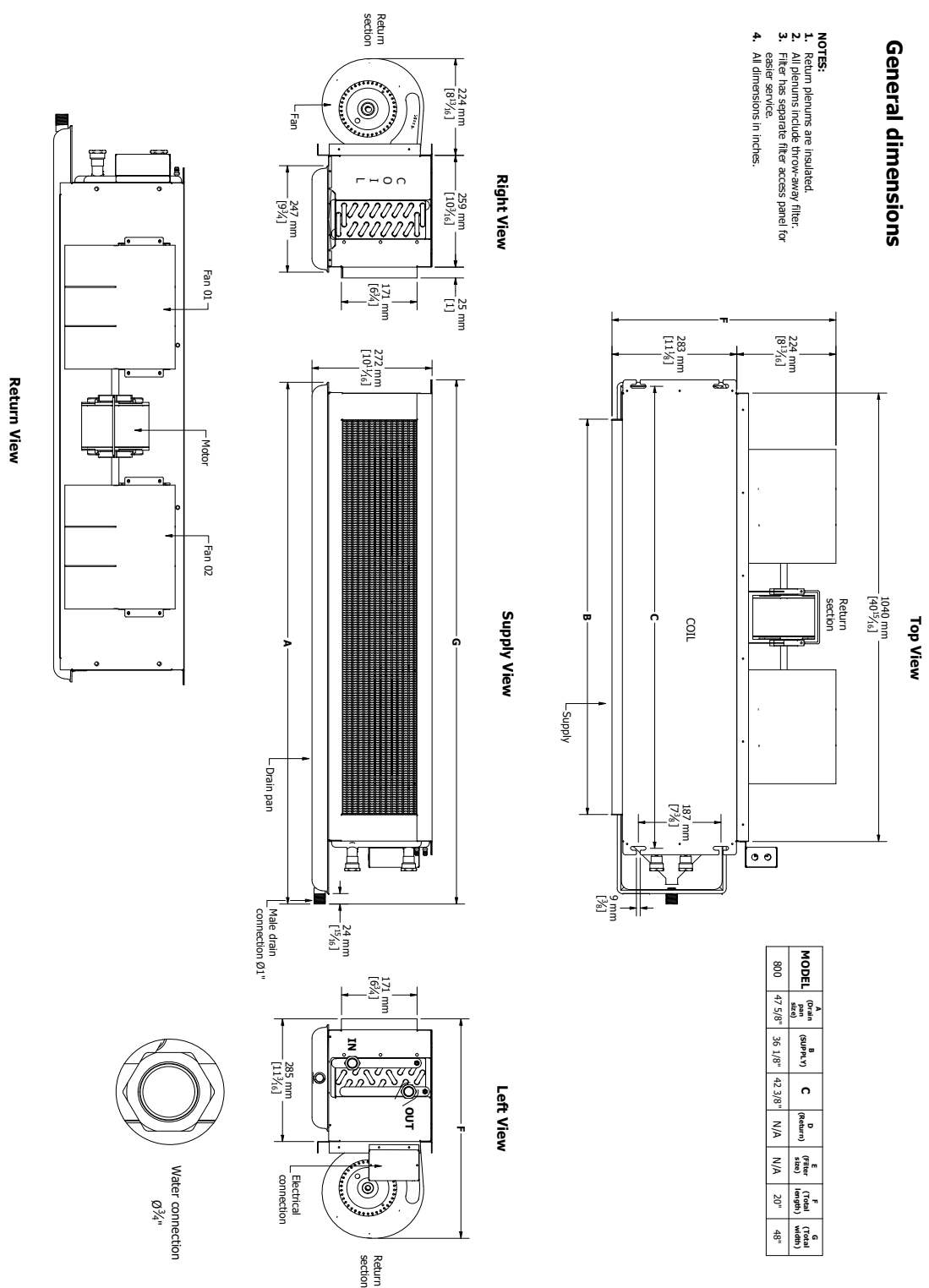
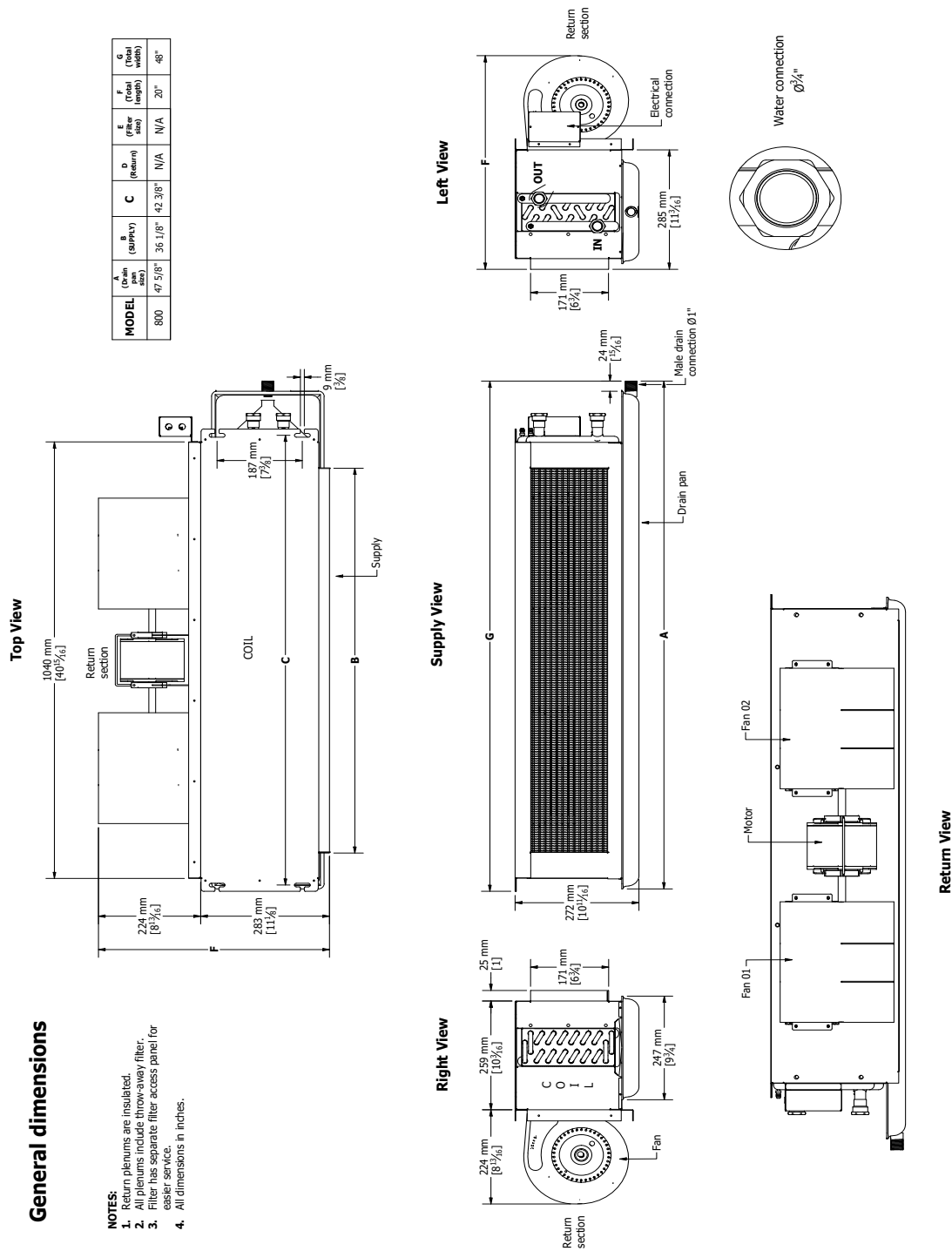


Figure 20. F&C Fixed 800 left side without plenum



DESING PARAMETERS

Figure 21. F&C Fixed 1000 right side without plenum

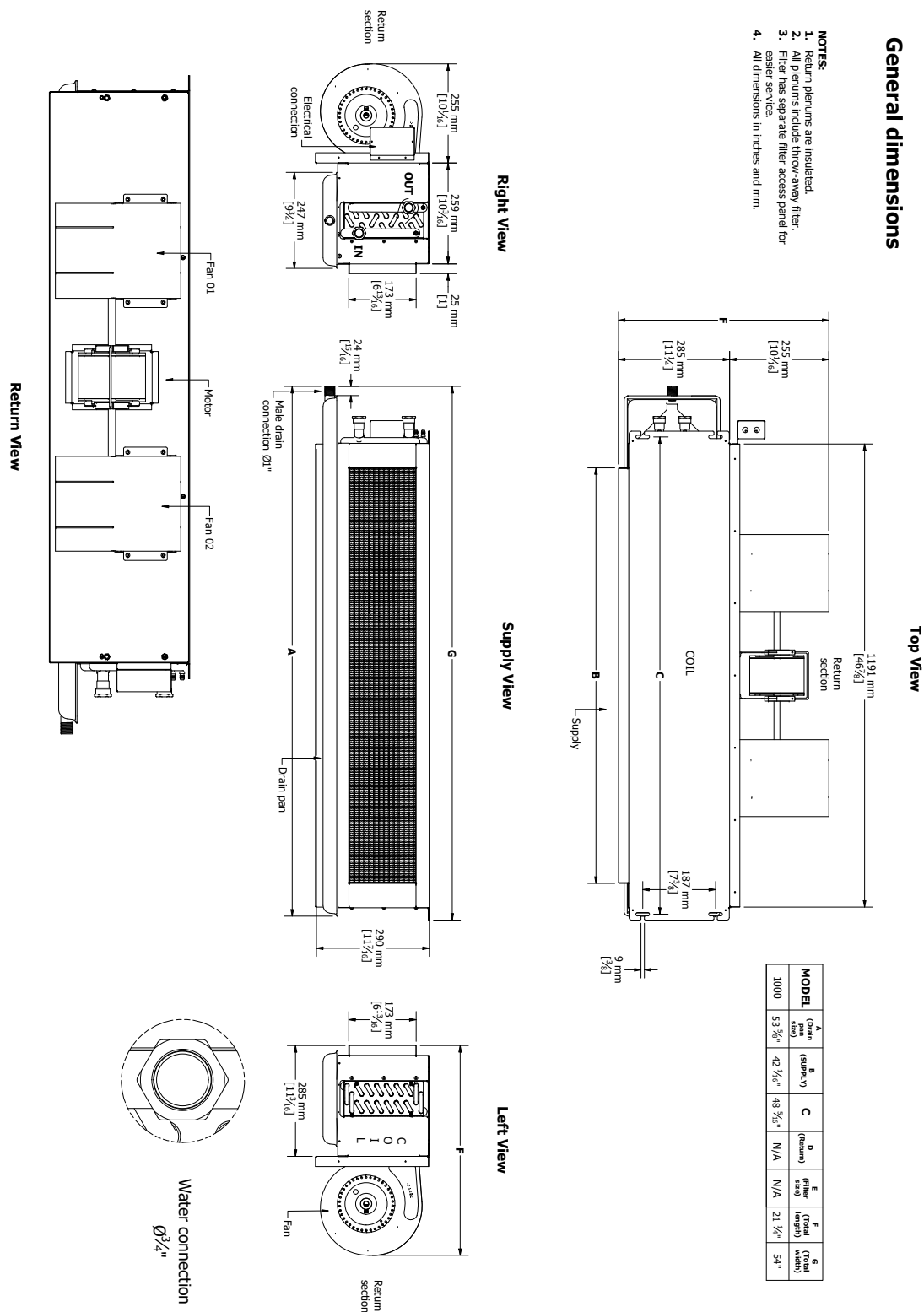
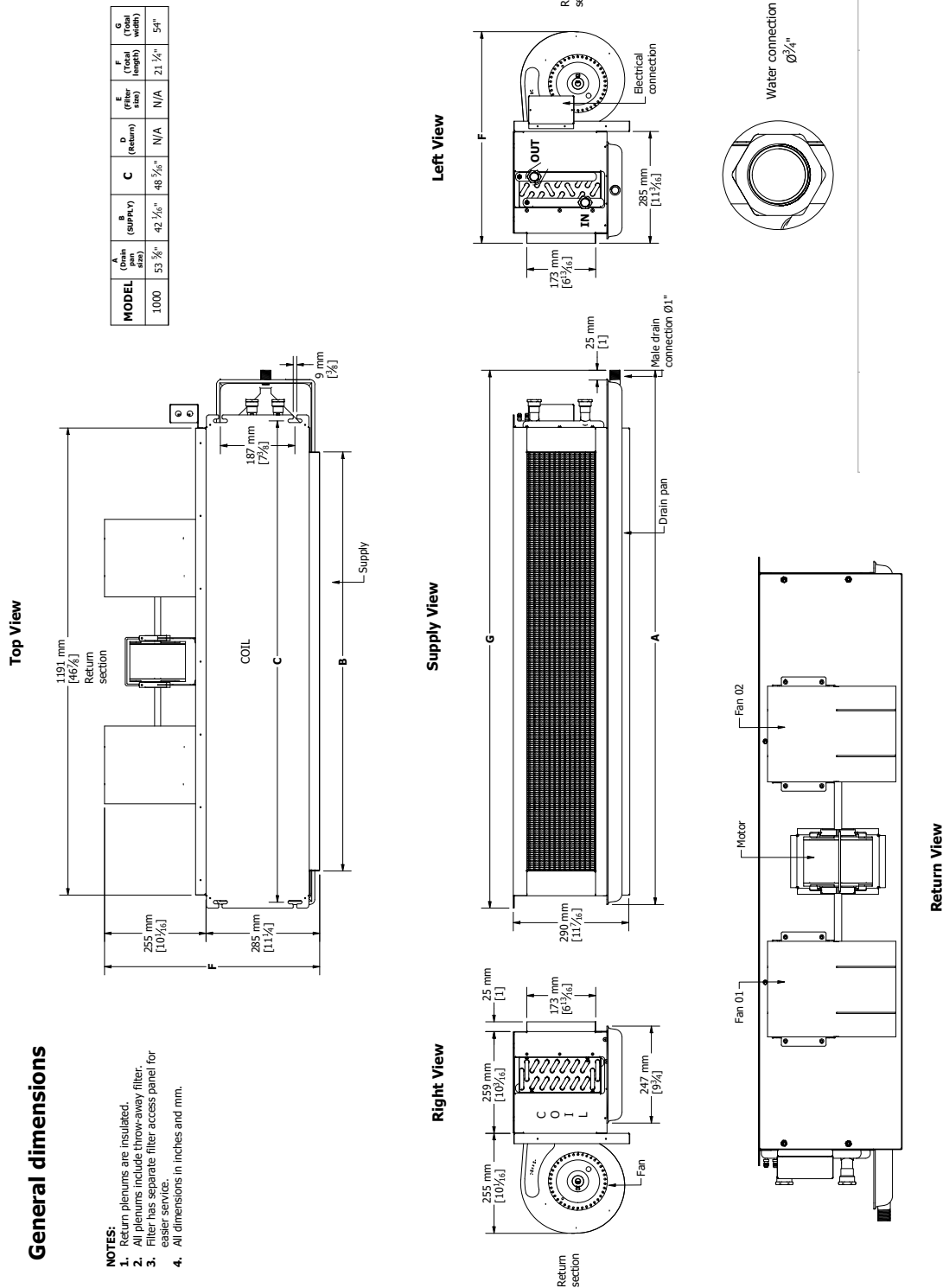


Figure 22. F&C Fixed 1000 left side without plenum



DESING PARAMETERS

Figure 23. F&C Fixed 1300 right side without plenum

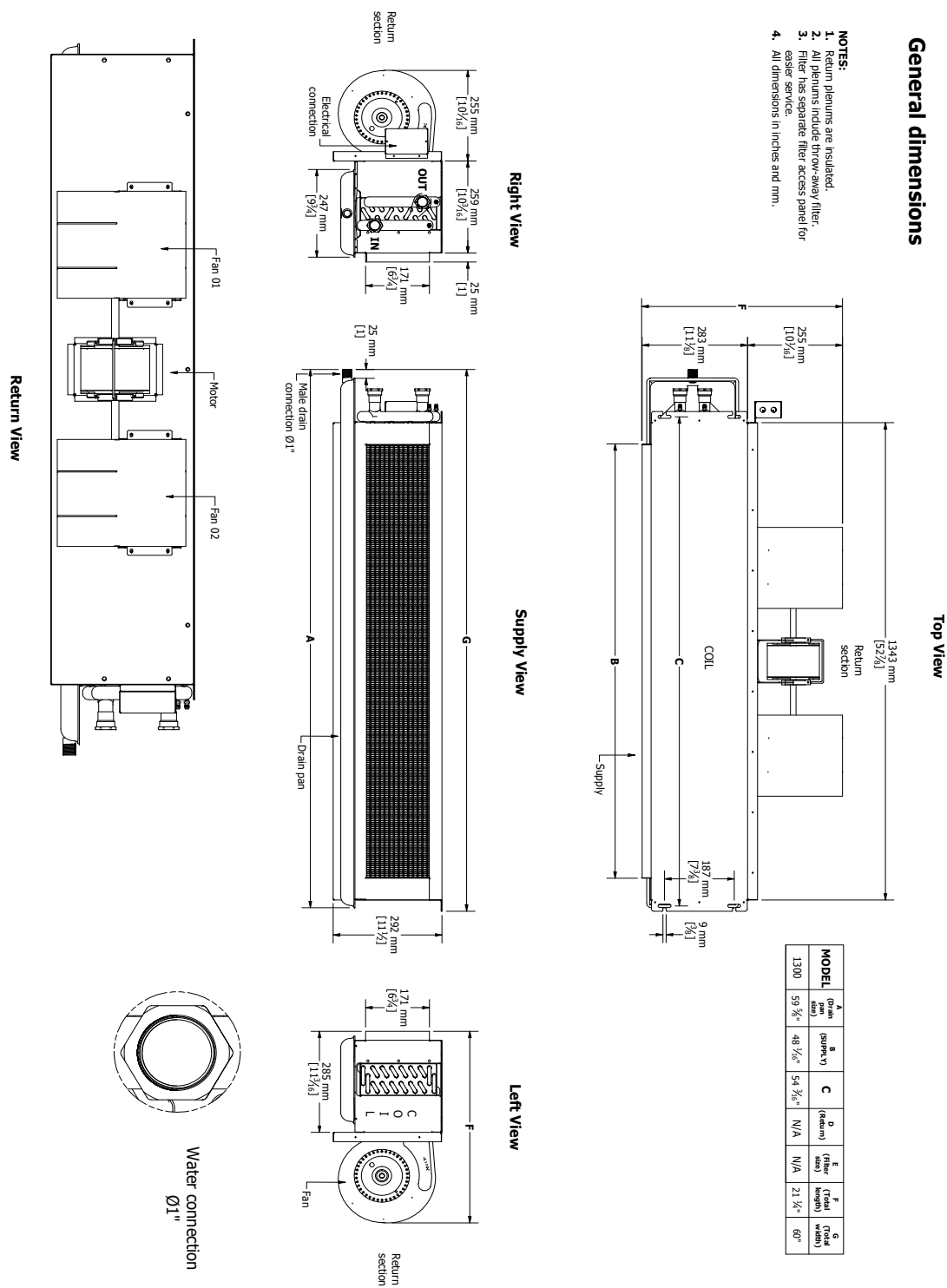
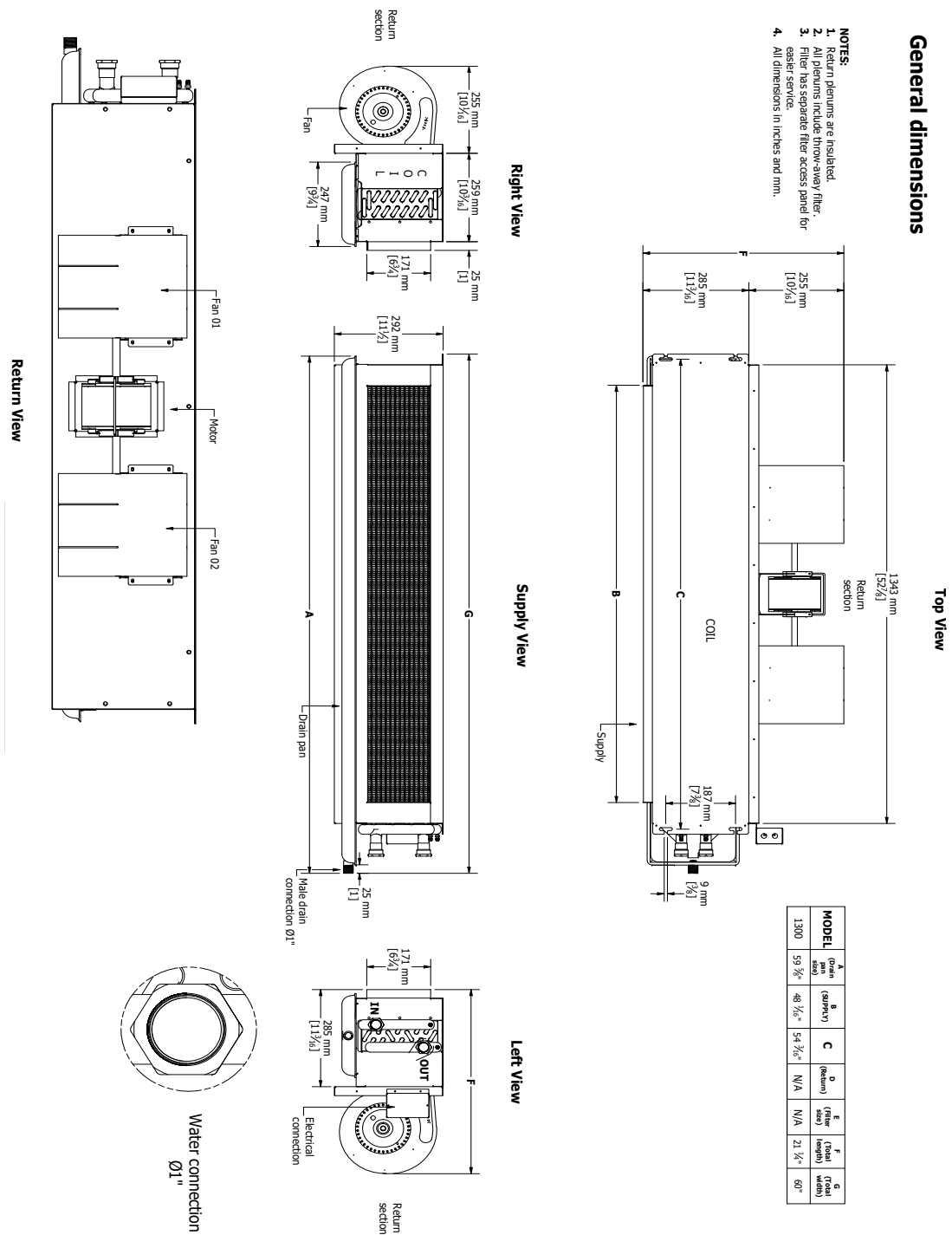


Figure 24. F&C Fixed 1300 left side without plenum



ELECTRICAL INFORMATION

Figure 25. Electrical diagram F&C Fixed

