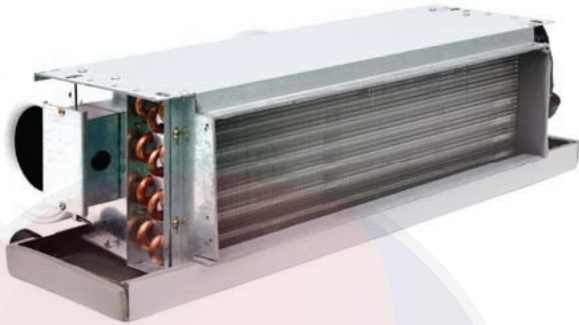


FS3QX
Slim Line Ducted Fan Coil Without Plenum
Sizes 012 thru 060



Product Data



SLIM LINE DUCTED FAN COIL WITHOUT PLENUM

Installation Ease

- Factory installed 24 volt transformer and relay
- High and low voltage terminal strips
- Factory installed refrigerant expansion device

Service

- Factory supplied washable aluminum mesh filter
- Controls conveniently mounted in exterior panel

Comfort

- Three speed blower motors
- Low sound levels

Quality

- Designed in accordance with ENEC standards
- High density closed cell foam insulation

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STANDARD FEATURES

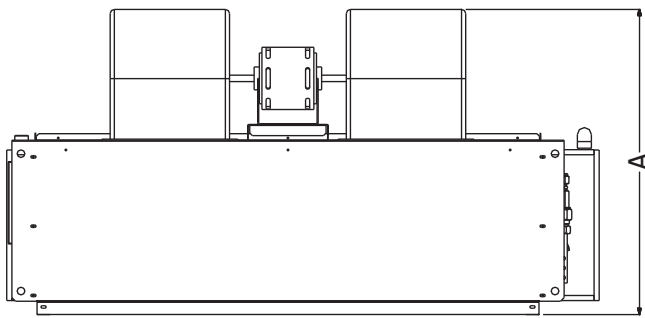
FS3QX***UN

- Ducted fan coil
- Seven models
- Nominal capacity - 12,000 - 60,000
- Voltage - 220-1-50/60
- Voltage range - 180 - 264
- R-22 refrigerant and R-410a
- Integral expansion orifice
- AC/HP capable Unit
- Plastic blower wheel
- High/Low volt terminal strip
- 24V transformer
- 24V fan relay
- Three fan speeds
- Integral mounting brackets

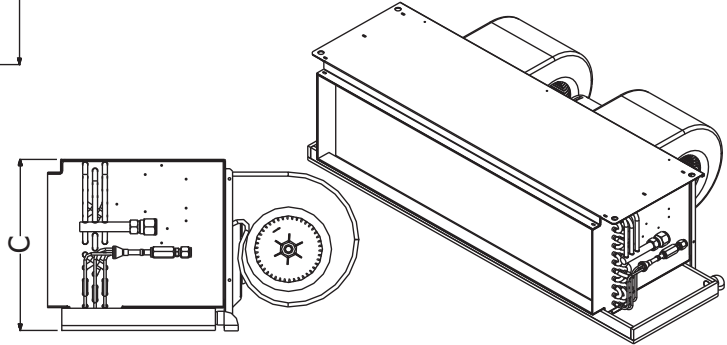
MODEL NUMBER NOMENCLATURE

	1	2	3	4	5	6	7	8	9	10	11	12
	F	S	3	Q	X	0	1	8	U	N	0	0
<p>Product F = Fan Coil</p> <hr/> <p>Type S = Slim Line Ducted</p> <hr/> <p>Position 3 = Horizontal</p> <hr/> <p>Electrical Q = 220V-1-50/60</p> <hr/> <p>Sales X = Export</p> <hr/> <p>Refrigerant 0 = R-22 4 = R-410A</p>											<p>Heating Size 00 = No Heat</p> <hr/> <p>Plenum N = Without plenum P = With plenum</p> <hr/> <p>Sales Code U = Unpainted unit with fan relay P = Unit with painted cabinet and electronic control board</p> <hr/> <p>Nominal Capacity 12 = 24,000 BTUH 18 = 18,000 BTUH 24 = 24,000 BTUH 30 = 36,000 BTUH 48 = 48,000 BTUH 60 = 60,000 BTUH</p>	

DIMENSIONS



model	A	B	C
FS3QX012UN00AAAA	540	723	233
FS3QX018UN00AAAA	540	888	233
FS3QX024UN00AAAA	540	1142	233
FS3QX030UN00AAAA	555	1142	284
FS3QX036UN00AAAA	600	1142	335
FS3QX048UN00AAAA	632	1142	386
FS3QX060UN00AAAA	666	1346	386



A12518

PHYSICAL DATA

		12	18	24	30	36	48	60
ELECTRICAL DATA								
Nominal capacity	Btu/h	12000	18000	24000	30,000	36000	48000	56000
Nominal air flow rate	cfm	400	600	800	1000	1200	1600	2000
Voltage		220 – 1 – 50/60						
Face area	m ²	0.111	0.144	0.1961	0.245	0.294	0.343	0.415
Number of rows	n	3	3	3	3	3	3	3
Coil size (in)	in	8 x 21.5	8 x 28	8 x 28	10 x 38	10 x 46	12 x 46	14 x 46
Pre – filter / Air filter	Type	NONE						
COIL DATA								
Fin type	Type	Corrugated						
Fins per inch	n	12	13	13	13	12	13	13
Tube size	in	3/8						
Number of tubes	n	24	24	24	30	36	36	42
BLOWER								
Type	Type	Centrifugal Double Inlet						
Diameter x Length	in	6 x 6	6 x 8	6 x 9	6.5 x 8.5	7 x 7	8 x 8	9 x 9
Number used	n	2	2	2	2	2	2	2
Motor	Type	Permanent split capacitor						
Drive	Type	DIRECT						
BLOWER DATA								
No. of motors	n	1	1	1	1	1	1	1
Pipe connection	Type	Flare						
Liquid line size	in	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"
PIPING CONNECTIONS								
Gas line size	in	1/2"	5/8"	5/8"	3/4"	3/4"	3/4"	3/4"
Drain connection size	in	1						
Expansion device type	Type	PISTON						
Expansion device size R-22	in	0.040	0.050	0.056	0.059	0.069	0.080	0.090
Expansion device size R-410a	in	0.040	0.052	0.055	0.059	0.065	0.076	0.086
UNIT DIMENSIONS								
Height unit – "C"	mm	233	233	233	284	337	386	386
Length unit – "B"	mm	723	888	1142	1142	1142	1142	1396
Depth unit – "A"	mm	540	540	540	555	600	632	666
WEIGHT – APPROXIMATE								
Net	kg	18	20	23	25	29	38	45
SHIPPING INFORMATION								
40' HC container load	n	640	520	420	320	266	216	150

PERFORMANCE DATA

Airflow Data at 220V-1-60hz

CFM vs STATIC PRESSURE (INCH)							
Model	Fan Speed	Static Pressure (inches)					
		0.1	0.2	0.3	0.4	0.5	0.6
FS3QX*12UN	High	415	378	218	–	–	–
	Medium	316	211	–	–	–	–
	Low	198	170	–	–	–	–
FS3QX*18UN	High	678	606	535	428	324	115
	Medium	546	484	422	338	179	–
	Low	401	367	387	210	–	–
FS3QX*24UN	High	704	627	565	436	300	–
	Medium	567	513	428	317	158	–
	Low	413	375	290	227	–	–
FS3QX*30UN	High	1138	1084	1008	927	798	683
	Medium	963	897	838	748	651	519
	Low	826	748	680	596	491	377
FS3QX*36UN	High	1262	1220	1178	1132	1070	1005
	Medium	1137	1112	1066	1049	986	929
	Low	973	942	909	870	826	781
FS3QX*48UN	High	1883	1781	1724	1703	1602	1545
	Medium	1660	1610	1549	1497	1450	1374
	Low	1423	1359	1317	1265	1176	1103
FS3QX*60UN	High	2321	2296	2229	2150	2079	1995
	Medium	1602	1570	1510	1446	1381	1304
	Low	1379	1324	1274	1217	1147	1082

* – 0 = R-22 refrigerant, 4 = R-410A refrigerant

Airflow Data at 220V-1-50hz

CFM vs STATIC PRESSURE (INCH)							
Model	Fan Speed	Static Pressure (inches)					
		0.1	0.2	0.3	0.4	0.5	0.6
FS3QX*12UN	High	408	375	208	–	–	–
	Medium	304	208	–	–	–	–
	Low	187	155	–	–	–	–
FS3QX*18UN	High	593	525	373	251	–	–
	Medium	534	446	339	150	–	–
	Low	414	357	247	–	–	–
FS3QX*24UN	High	657	579	420	245	–	–
	Medium	580	489	364	185	–	–
	Low	443	390	245	103	–	–
FS3QX*30UN	High	1071	981	853	676	482	269
	Medium	972	893	745	625	450	239
	Low	883	788	698	558	372	211
FS3QX*36UN	High	1241	1165	1098	993	942	881
	Medium	1131	1095	1024	976	890	896
	Low	955	924	879	814	759	770
FS3QX*48UN	High	1866	1781	1648	1582	1446	1381
	Medium	1706	1640	1573	1485	1376	1247
	Low	1501	1446	1365	1271	1158	979
FS3QX*60UN	High	2090	2060	2015	1935	1865	1780
	Medium	1440	1410	1360	1305	1245	1175
	Low	1248	1194	1467	1095	1035	975

* – 0 = R-22 refrigerant, 4 = R-410A refrigerant

CONVERSION FACTORS

METRIC TECH	X =	ENGLISH UNIT	X =	SI UNIT
Area				
cm			100	mm
cm	0.1550	in.	645.2	mm
m			1.0	m
m	10.76	ft	0.09290	m
Length				
µm			1.0	µm
µm	39.37	micro-in.	0.0254	µm
mm			1.0	mm
mm	0.03937	in.	25.4	mm
mm	0.003281	ft	304.8	mm
m			1.0	m
m	3.281	ft	0.3048	m
m	1.094	yd	0.9144	m
Mass				
g			1.0	g
g	0.03527	oz	28.35	g
kg			1.0	kg
kg	2.205	lb	0.4536	kg
tonne. Mg			1.0	tonne. Mg
tonne. Mg	1.102	U.S. ton (2000 lb)	0.9072	tonne. Mg
Power				
kcal/h			1.163	W
kcal/h	3.968	Btu/h	0.2931	W
HP metric			0.7355	kW
HP metric	0.9863	HP (550 $\frac{\text{ft}\cdot\text{lb}}{\text{s}}$)	0.7457	kW
Mcal/h			1.163	kW
Mcal/h	0.3307	Ton ref.	3.517	kW
Pressure				
mm w.g 4°C			9.806	Pa
mm w.g 4°C	0.03937	in H ₂ O 39.2°F	249.1	Pa
mm Hg 0°C			0.1333	kPa
mm Hg 0°C	0.03937	in Hg 32°F	3.386	kPa
kg/cm ²			98.07	kPa
kg/cm ²	14.22	psi	6.895	kPa
mH ₂ O	3.281	ft H ₂ O	2.989	kPa

METRIC TECH	X =	ENGLISH UNIT	X =	SI UNIT
Temperature				
Interval				
°C			1.0	K
°C	1.8	°F	0.5556	°C
Velocity				
m/s			1.0	m/s
m/s	3.281	ft/s	0.3048	m/s
m/s	196.9	ft/min	0.00508	m/s
Volume				
mm			1.0 x 10 ⁻⁶	L
mm	6.102x10 ³	in.	0.01639	L
L			1.0	L
L	0.03531	ft	28.32	L
m			1.0	m
m	1.308	yd	0.7646	m
L	0.2642	U.S. gal	3.785	L
L	2.113	U.S. pint	0.4732	L
mL .cm			1.0	mL
mL .cm	0.03381	U.S. oz	29.57	mL
Volume/Time				
m ³ /h			0.2778	L/s
m ³ /h	0.5886	ft ³ /min	0.4719	L/s
m ³ /h	4.403	U.S. gal/min	0.06309	L/s
L/h			2.778x10 ⁻⁴	L/s
L/h	4.303x10 ³	U.S. gal/min	0.06309	L/s
(m ³ /h)/ (1000 kcal/h)	1.780	cfm/ton	0.1342	L/s • kW
METRIC TECH	CONVERSION FACTOR	ENGLISH UNIT	CONVERSION FACTOR	SI UNIT
Temperature				
°C			°C + 273.15 K	
°C	(°Cx1.8) + 32	°F	(°F-32) + 1.8°C	

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