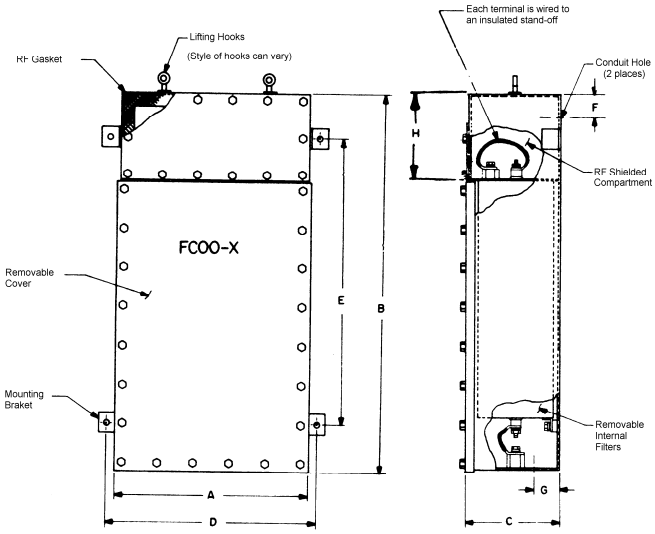
Filters for RF Power Line Assembled Cabinet for shielded rooms and secure areas (Tempest Application)



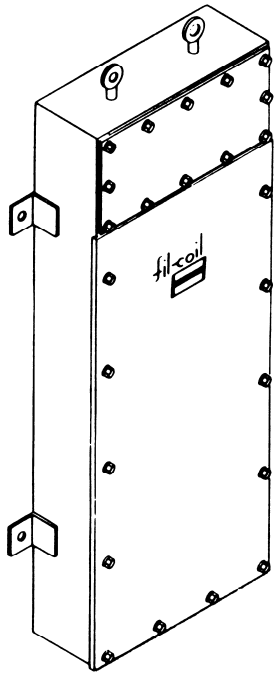
These Filters are available in two series

FC 00-W: 100dB attenuation from 14 kHz to 10 GHz measured per MIL-STD-220A full load

FC 00-X: 100dB attenuation from 14 kHz to 10 GHz measured per MIL-STD-220A full load.
SPECIAL: Measured from 14 kHz to 20 MHz under full load condition with extended range buffer network

HIGHLIGHTS

High reliability. Special design and construction developed for secure communication areas, tempest shielded rooms. Designed for many years of continuous fail free service. All filters are field replaceable. Refer to Accessories Section (Page 21) for Filter Discharge Units FC-10,000 Series Refer to Page 20 for Power Factor Correction Coils.



SERIES FC 00-X

PART NO.	CURRENT (AMPERES)	DIMENSIONS (INCHES) A	B	C	D	E	F	G	H	CONDUIT ENTRY DIA.	APPROX. WEIGHT (LBS.)
FC00-X-2x5	2x5	12 ¼	29	5	14 ¼	17	2	2	5.75	7/8	75
FC00-X-3x5	3x5	20	29	5	22	17	2	2	5.75	7/8	110
FC00-X-4x5	4x5	20	29	5	22	17	2	2	5.75	7/8	130
FC00-X-2x30	2x30	12 ¼	37	5	14 ¼	25	3	2	4.25	1 3/8	135
FC00-X-3x30	3x30	20	37	5	22	25	3	2	4.25	1 3/8	165
FC00-X-4x30	4x30	20	37	5	22	25	3	2	4.25	1 3/8	200
FC00-X-2x60	2x60	15 ½	48	11	17 ½	36	3	5	9.38	1 ¾	230
FC00-X-3x60	3x60	25	48	11	27	36	3	5	9.38	1 ¾	320
FC00-X-4x60	4x60	25	48	11	27	36	3	5	9.38	1 ¾	380
FC00-X-2x100	2x100	16 ½	60	11	18 ½	48	4	5	9.38	2	290
FC00-X-3x100	3x100	25	60	11	27	48	4	5	9.38	2	400
FC00-X-4x100	4x100	25	60	11	27	48	4	5	9.38	2	450
FC00-X-2x200	2x200	17 ½	60	25	19 ½	48	4	5	10.00	3	600
FC00-X-3x200	3x200	25	60	25	27	48	4	5	10.00	3	750
FC00-X-4x200	4x200	25	60	25	27	48	4	5	10.00	3	900

SERIES FC 00-W (FC 00-W has one piece cover)

PART NO.	CURRENT (AMPERES)	DIMENSIONS (INCHES) A	B	C	D	E	F	G	H	CONDUIT ENTRY DIA.	APPROX. WEIGHT (LBS.)
FC00-X-2x5	2x5	12 ¼	29	5	14 ¼	17	2	2	5.75	7/8	75
FC00-X-3x5	3x5	20	29	5	22	17	2	2	5.75	7/8	105
FC00-X-4x5	4x5	20	29	5	22	17	2	2	5.75	7/8	125
FC00-X-2x30	2x30	12 ¼	37	5	14 ¼	25	3	2	7.75	1 3/8	80
FC00-X-3x30	3x30	20	37	5	22	25	3	2	7.75	1 3/8	130
FC00-X-4x30	4x30	20	37	5	22	25	3	2	7.75	1 3/8	165
FC00-X-2x60	2x60	15 ½	37	5	17 ½	25	3	5	7.75	1 ¾	100
FC00-X-3x60	3x60	25	37	5	27	25	3	5	7.75	1 ¾	140
FC00-X-4x60	4x60	25	37	5	27	25	3	5	7.75	1 ¾	175
FC00-X-2x100	2x100	16 ½	37	11	18 ½	25	4	5	10.00	2	170
FC00-X-3x100	3x100	25	37	11	27	25	4	5	10.00	2	250
FC00-X-4x100	4x100	25	40	11	27	25	4	5	10.00	2	300
FC00-X-2x200	2x200	17 ½	40	17	19 ½	28	4	5	10.00	3	200
FC00-X-3x200	3x200	25	40	17	27	28	4	5	10.00	3	350
FC00-X-4x200	4x200	25	60	17	27	28	4	5	10.00	3	425

These models are available with NT suffix denoting grounded neutral terminal in case. All filters above are rated for 0-60 Hz line frequencies. 400 Hz power filters are available. Voltage rating: 0-277 VAC line-to-neutral or 0-480 VAC line-to-line, 600 VDC max Single filter is available in cabinet for above series

Fil-Coil FC Inc, 98 Lincoln Avenue,
Sayville, NY 11782 U.S.A.

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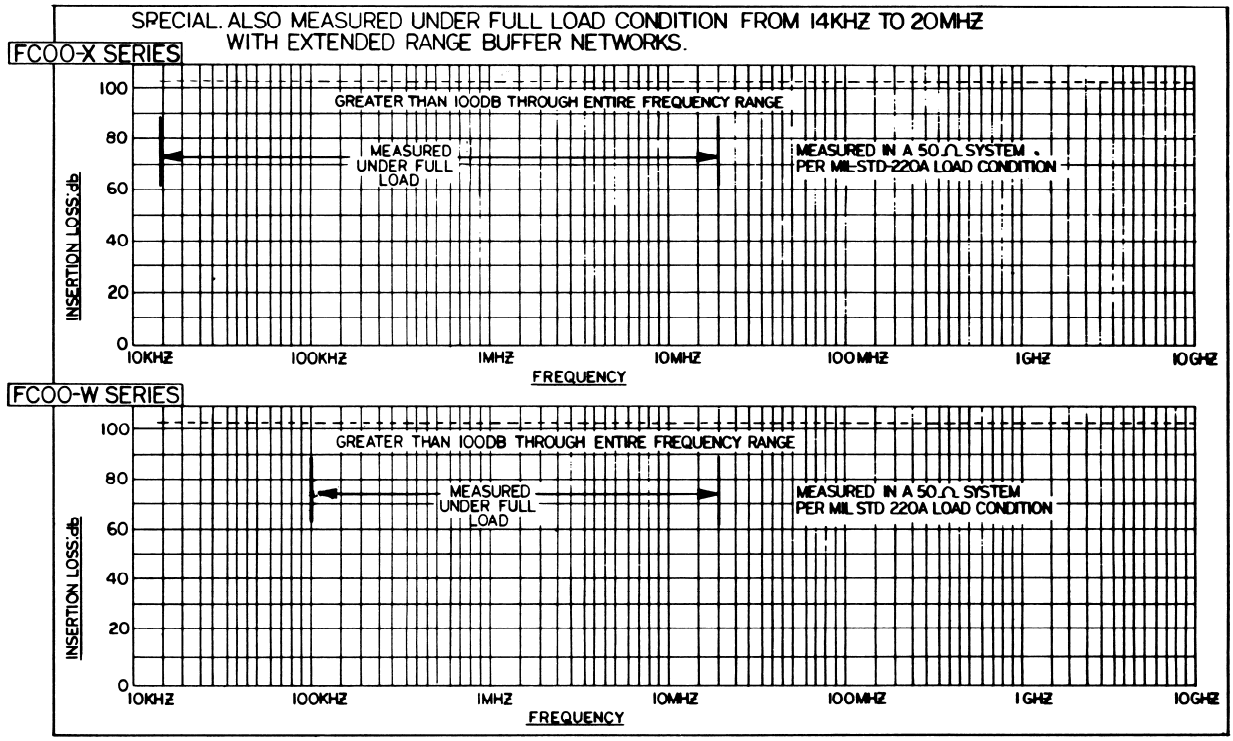
Assembled Cabinet
for shielded rooms and secure areas (Tempest Application)



SPECIFICATIONS

GENERAL

The filter herein described shall be designed for filtering of radio frequency interference and to meet the requirements of Military Specifications MIL-F-15733, where applicable. These filters may be used with other electrical devices to enable the devices to meet the requirements of MIL-I-26600, MIL-I-16910, MIL-I-6181, MIL-I-11748, MIL-STO-461, 462, 463, FED-STD-222, and FCC Specification Part 18. Also, DCA specifications and others developed for special equipment and systems applications.

ELECTRICAL

CURRENT RATING: The filters shall be capable of carrying full-rated current with a heat rise not exceeding 25°C above ambient temperature. The filters shall be capable of withstanding 140% of rated current overload for 15 minutes without any deterioration.

VOLTAGE: The filters shall be capable of operating continuously at full-rated voltage and of withstanding an over-voltage test of twice the rated voltage for one minute. Maximum voltage drop shall not exceed 2 volts when measured in accordance with MIL-F-15733. Maximum operating temperature: 85°C.

MECHANICAL

CASE: The inner cases of each filter shall be made of C.R.S. 16 GA. min. Each phase filter shall be individually replaceable. All internal filters are hermetically sealed.

TERMINALS: The terminals shall be made of high temperature alumina ceramic and shall be leak proofed. The ceramic terminal shall have a flexible insulated lead, one end of which is permanently attached to the terminal, the other end in a permanently affixed lug mounted on .7 approved flame-retardant stand-off insulator secured with a suitable screw. All connections shall be made only at the stand-offs.

IMPREGNANT: Where applicable the impregnant shall be non-flammable as classified by U.L. and MIL-F-15733.

CONSTRUCTION: Input and output terminals shall be completely enclosed in RF shielded compartments. Covers on the input and output RF shielded compartments shall be held down with screws. Gasketing shall be used between the cover and the inside fitting flange to maintain RF integrity. Internal components shall be mounted and fixed to prevent damage when subjected to applicable shock and vibration tests.

FINISH: All filter cases shall be made rust proof by painting over primer. All unfinished grounding surfaces are protected by suitable plating.

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