Nailor Industries Inc. ®

FAN FILTER UNIT • CRITICAL ENVIRONMENT APPLICATIONS • ALUMINUM FRAME AND PLENUM ECM • HEPA / ULPA FILTER
MODEL: 92FFU

ETL LISTED c US
Intertek

1/4 TURN FASTENERS

WALKABLE PLENUM (MAX.: 250 LBS.)

EYEBOLTS (4)

INLET COLLAR (OPTIONAL)

CONTROL BOX

B

51% FREE AREA PERFORATED FACE

LED INDICATOR (OPTIONAL)

FACE PLATE HINGES (3)

EYEBOLTS

D - 1/8" (3)

2" (51)

5 1/4" (133)

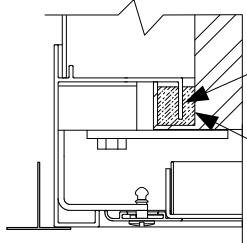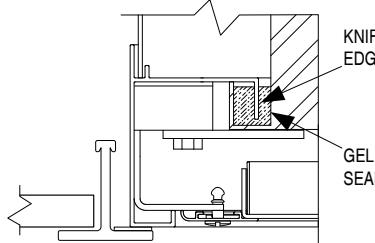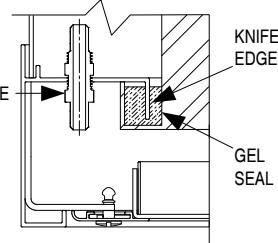20 3/8" (518)

17 5/8" (448)

C

A

DIMENSIONAL AND ELECTRICAL DATA

Ceiling Module Size	Unit Measurements			Optional Round Duct Sizes D	ECM FLA (120/208/240/277)V		Weight
Imperial Modules	A	B	C		Backward Curved (BC)	Forward Curved (FC)	lbs(kg)
24 x 24	23 11/16 (602)	23 11/16 (602)	12 5/8 (318)	08 (203), 10 (254), 12 (305)	-	3.0/2.0/1.9/1.9	58 (26)
36 x 24	35 11/16 (904)	23 11/16 (602)	12 5/8 (318)	08 (203), 10 (254)	2/1.6/1.5/1.5	4.5/3.0/2.9/2.8	65 (29)
48 x 24	47 11/16 (1211)	23 11/16 (602)	12 5/8 (318)	12 (305), 14 (356)	1.8/1.2/1.1/1.1	4.2/2.8/2.7/2.6	80 (36)

❏ **TYPE L** Lay-in T-Bar Detail

KNIFE EDGE

GEL SEAL

❏ **SMFG** Surface mount frame w/ gasket (optional accessory)

KNIFE EDGE

GEL SEAL

SPP Standard

STATIC PRESSURE PORT

KNIFE EDGE

GEL SEAL

DESCRIPTION:

Nailor 92FFU Fan Filter Units have been designed to supply HEPA/ULPA filtered air to a cleanroom environment in a very efficient manner. The incredibly quiet units offer one of the highest CFM outputs on the market. The units are intended for use in cleanroom applications such as microelectronics, pharmaceutical, biotechnology as well as aerospace manufacturing/assembly and laser/optic industries. All 92FFU series consist of an aluminum welded plenum and fan/motor assembly to ensure a repeatable, rigid, clean and near leak free design, meeting the most stringent of current leak tests. ECM technology provides an ultra-energy efficient design. Filters are secured within the plenum against a continuous knife edge that contacts the gel channel of the filter, providing a leak proof seal. Filters are protected by a perforated hinged face held close by quarter turn fasteners.

SCHEDULE TYPE:	Page 1 of 2			
PROJECT:	Dimensions are in inches (mm).			
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	12 - 2 - 25	9200	3 - 13 - 24	92FFU-1

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FAN FILTER UNIT · CRITICAL ENVIRONMENT
APPLICATIONS · ALUMINUM FRAME AND PLENUM
ECM · HEPA / ULPA FILTER
MODEL: 92FFU

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STANDARD FEATURES:

1. Aluminum frame and perforated face with 3/16" (5) dia. holes on 60° 1/4" (6) staggered centers (51% free area). The face plate is hinged for cleaning, filter replacement, and is secured by two 1/4 turn fasteners.
2. Internal fiber free insulation to reduce sound levels.
3. Eyebolts for ceiling suspension.
4. Plenum and face in Appliance White paint finish.
5. High efficiency EC motor (ECM), single phase, 1/3HP, 60Hz at 24V.
6. Face accessible 3/8" (10) diameter SPP/PAO sample port.
7. Roomside removable HEPA filter (2" media) (99.99% on 0.3 μm).
8. QF Toggle disconnect switch.
9. ETL Listed & Tested to UL 507 Standard.
10. Lay-in T-Bar mounting (Up to 1 1/2" (38) wide)
11. MERV 8 pre-filter. (Standard for non-ducted applications.)
12. Standalone Universal Control Card (UCC)
    - Manual Mode: Onboard trim potentiometer adjustment
    - Analog Mode: 0 – 10 VDC Input
    - Network Mode: Modbus RTU
13. Open plenum square inlet.
14. Topside removable motor/blower.
15. Walkable plenum up to 250 lbs.

OPTIONS:

Ceiling Module Size (inches):
- ❏ 24 x 24
- ❏ 36 x 24
- ❏ 48 x 24

Inlet Size (inches):
- ❏ 08   8" dia. round collar
- ❏ 10   10" dia. round collar
- ❏ 12   12" dia. round collar
- ❏ 14   14" dia. round collar

Fan Wheel Type:
- ❏ FC   Forward Curved (std. eff.)
- ❏ BC   Backward Curved (high eff.)

Fan Motor Voltage:
- ❏ V18   120V ECM
- ❏ V19   208V ECM
- ❏ V20   240V ECM
- ❏ V21   277V ECM

EC Motor Program:
- ❏ CF   Constant Flow (default for FC blower)
- ❏ CT   Constant Torque (default for BC blower)

Control:
- ❏ LAN   Local Area Network (Modbus)

Motor/Blower Access:
- ❏ RTMB   Roomside and topside removable

Filter Efficiency:
- ❏ ULP2   ULPA (2" media) (99.9995% on 0.12 μm)
- ❏ NFTR   No Filter (order separately)

Plenum Finish:
- ❏ PBW   British White
- ❏ PMI   Mill

Face Finish:
- ❏ FBW   British White
- ❏ FMI   Mill

Pre-Filter:
- ❏ NPF   No Pre-filter (default for ducted inlet)
- ❏ PF8H   MERV 8 w/ side access housing (ducted)
- ❏ PFW   Washable
- ❏ PFWH   Washable w/side access housing (ducted)

ACCESSORIES

Motor Run Indicator:
- ❏ MRI   Face mounted LED light (green)

Loaded Filter Indicator:
- ❏ LFI   Face mounted LED light (red)

Continuous Filter Monitoring:
- ❏ CFM1   Transducer (Modbus)
- ❏ CFM2   Transducer (0-10 Vdc terminal block)

PAO Challenge:
- ❏ AICP   Aerosol Injection Challenge Port (1/2" (13) dia.)

Mounting Accessory:
- ❏ SMFG   Surface mount frame w/gasket (ships separately)
    (See separate submittal 92FFU-SMFG)

Control Option:
- ❏ WMK   Wall Mount Speed Control Kit
    (one per unit. Standalone)

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