

diffuser/pack[®]

Short-Depth In-Line Air Diffuser Section



Convenient factory assembled air diffuser section to ensure even airflow across HVAC components



Perforated plate with 51% open area offers component pressure drop of only 0.10" w.g.

Minimal in-line depth of only 12" saving space for other HVAC components.

The Camfil Farr Diffuser/Pack is an inline housing that removes turbulence from forced airflows and uniformly distributes the air throughout the full breadth of the air distribution system. Each Camfil Farr Diffuser/Pack includes:

- 16-gauge galvanized steel construction. All components are weatherproof for interior or exterior installation.
- A short inline depth of only 12" conserving valuable space for other HVAC system components.
- Pre-drilled standing flanges to mate to existing HVAC equipment.
- An angled diffuser plate with 51% open area. The angle and open area contribute to static regain. At 500 feet per minute velocity the total resistance to airflow across the unit is less than 0.10" w.g.

Designed primarily for the positive side of the fan, the Camfil Farr Diffuser/Pack is installed in the same fashion as a filter housing. At 500 feet per minute face velocity the equivalent re-directional reaction is the equivalent of three duct lengths from an abrupt airflow turn.

The Diffuser/Pack may also be applied directly upstream of specific HVAC components. It can ensure that filters load evenly and operate at design velocity thus increasing their service life and performance. The Diffuser/Pack ensures uniform airflow across heating/cooling coils for efficient fin heat transfer thereby promoting energy savings.

The Diffuser/Pack is an excellent choice for those applications where component space may have been limited and where the basics of good airflow design may have been compromised.



Camfil Farr	Product sheet
Diffuser/Pack [®]	2407 - 0606
Camfil Farr—clean air solutions	

PERFORMANCE DATA

DIFFUSER/PACK®

Housing Dimensions & Airflow Capacities

NUMBER OF UNITS HIGH	HEIGHT	NUMBER OF UNITS WIDE											
		1/2	1	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5	5-1/2	6
1/2	1' 3-1/4"	—	1000	—	2000	—	3000	—	4000	—	5000	—	6000
1	2' 3-1/4"	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000
1-1/2	3' 3-1/2"	—	3000	—	6000	—	9000	—	12000	—	15000	—	18000
2	4' 3-1/2"	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000
2-1/2	5' 3-3/4"	—	5000	—	10000	—	15000	—	20000	—	25000	—	30000
3	6' 3-3/4"	—	6000	9000	12000	15000	18000	21000	24000	27000	30000	33000	36000
3-1/2	7' 4"	—	7000	—	14000	—	21000	—	28000	—	35000	—	42000
4	8' 4"	—	8000	12000	16000	20000	24000	28000	32000	36000	40000	44000	48000
WIDTH		1' 0"	2' 0"	3' 0"	4' 0"	5' 0"	6' 0"	7' 0"	8' 0"	9' 0"	10' 0"	11' 0"	12' 0"

DATA NOTES:

One unit is equal to one full size 24" x 24" filter for filter housing matching. 1/2 size is 12" by 24".
 Airflow rated at 500 fpm, may be operated to 625 fpm.
 Standard housing operational to ± 6.0" w.g.
 Contact your Camfil Farr representative for shipping and installed housing weight.

Available Options:

Stainless steel construction
 High-pressure construction (to 8.0" w.g.)
 Double-wall with insulation
 Transitions to standard HVAC equipment.
 Contact factory for more information.

SPECIFICATIONS

1.0 General

1.1 - Air diffuser section shall be factory assembled inline module consisting of 16-gauge galvanized steel with an angle mounted perforated plate of the same construction. In-line depth shall not exceed 12".

1.2 - Sizes shall be as noted on enclosed drawings or other supporting materials.

2.0 Construction

2.1 - The housing shall be constructed of 16-gauge galvanized steel. Corner posts of Z-channel construction shall ensure dimensional adherence. The housing shall be weatherproof and suitable for rooftop/outdoor installation.

2.2 - The housing shall have pre-drilled standing flanges to facilitate mounting to matching housings, transitions or HVAC hardware.

2.3 - A perforated plate, of the same materials of construction, shall have a 51% open area shall be permanently welded to the inside periphery of the housing. Holes shall be 3/16" and staggered across the plate on 1/4" centers. The plate shall be mounted on an angle to the airflow to effect maximum airflow to diffuser open area.

3.0 Performance

3.1 - Resistance to airflow at 500 feet per minute face velocity shall not exceed 0.10" w.g.

3.2 - Manufacturer shall provide evidence of facility certification to ISO 9001:2000.

Camfil Farr has a policy of uninterrupted research, development and product improvement. We reserve the right to change designs and specifications without notice.

Camfil Farr, Inc.

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