

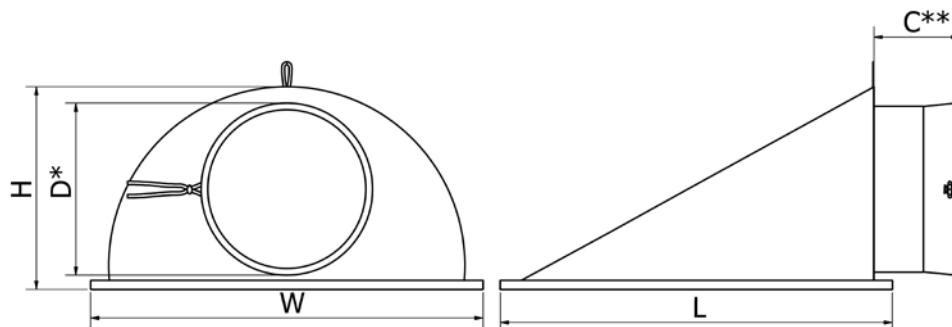
Technical data

Extract unit, EPI

The FabricAir EPI is a drop-in unit, suitable for T-profile-based suspended ceiling installations and is used for air extraction. They are quick to install and require no tools. The units can be connected to both solid and flexible ducts. The plenum box – the upper and hidden part of the unit – is insulated. The connection sleeve

is centered on the end or side of the plenum box and it fits duct sizes from 5 in to 10 in by adjusting the strap lock. The flow panel – the lower and visual part – is a fabric with a PerfoFlow™ flow model and is available in alternative colors or printed patterns. This unit is made from FabricAir Combi 80 and Combi 90 fabrics, and it comes with a 10-year warranty.

Dimensions



Performance data

SMI	W (in)	L (in)	H (in)	D* (in)	C** (in)		m (lbs)
					solid duct	flexible duct	
24" x 24"	23 3/4	23 3/4	12	10 1/4	8	4 1/4	4.0
24" x 48"	23 3/4	47 3/4	12	10 1/4	8	4 1/4	6.4
48" x 24"	47 3/4	23 3/4	12	10 1/4	8	4 1/4	6.4

Notes:

- * Fits for duct sizes Ø5"-10" by adjusting the strap lock.
- ** Length of the connection sleeve when fully extended. Length decreases with the size of the duct when connected. Smaller duct diameter results in a shorter length of the connection sleeve.

Disclaimer: Unit flow panels may experience a small amount of curve inwards during operation or sagging at rest after extended use.

Performance data

Tested in general accordance to ANSI/ASHRAE Standard 70-2006. Tests performed with straight metal duct connection. Actual performance may vary in the field depending on upstream duct layout and when flexible duct is used. To obtain total pressure, add the velocity pressure to the static pressure.

NC values based on octave band 2 to 7 sound power levels minus a room absorption of 10 dB, re 10^{-12} Watts. Dash (-) in space denotes an NC value of less than 15. Grey zone indicates airflow which exceeds the working range. Exceeding recommended airflow rates may cause vibrations and performance disturbances.

Code compliance

							Feature
EN 13501-1	UL 723	ULC s102.2	GOST 30244	NFP 92:507	DS 428	GB 8624	Anti-microbial
B-s1, d0			✓	M1	✓	B-s1, d0, t1	✓

EPI 24" x 24"

Sound attenuation

Sound attenuation of the diffuser ΔL from duct to room in dB.

Dash (-) denotes attenuation was not determined.

Diffuser	Connecting duct diameter (in)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
24" x 24"	5	-	0.1	-	-	1.4	0.4	2.5	3.5
	6	-	-	-	-	3.3	-	-	3.6
	8	-	0.5	-	-	5.2	1.7	3.3	3.6
	10	-	-	-	-	3.6	3.1	3.6	3.7

Sizing tables

Connecting duct diameter (in)	Neck velocity (fpm)	200	300	400	500	600	700	800	900	1000	1100
	Velocity pressure (in.w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.076
5	Airflow (cfm)	27	41	55	68	82	95	109	123	136	150
	Neg. static pressure (in.w.g.)	0.010	0.023	0.040	0.063	0.091	0.123	0.161	0.204	0.252	0.304
	NC	-	-	-	-	-	-	-	-	-	15
6	Airflow (cfm)	39	59	79	98	118	137	157	177	196	216
	Neg. static pressure (in.w.g.)	0.011	0.024	0.042	0.066	0.095	0.129	0.169	0.213	0.263	0.319
	NC	-	-	-	-	-	-	-	-	-	-
8	Airflow (cfm)	70	105	140	175	209	244	279	314	349	384
	Neg. static pressure (in.w.g.)	0.015	0.033	0.059	0.092	0.133	0.181	0.236	0.298	0.368	0.446
	NC	-	-	-	-	-	-	17	20	22	25
10	Airflow (cfm)	109	164	218	273	327	382	436	491		
	Neg. static pressure (in.w.g.)	0.023	0.051	0.091	0.143	0.205	0.279	0.365	0.462		
	NC	-	-	16	21	26	28	31	34		

EPI 24" x 48"

Sound attenuation

Sound attenuation of the diffuser ΔL from duct to room in dB.

Dash (-) denotes attenuation was not determined.

Diffuser	Connecting duct diameter (in)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
24" x 48"	5	0.2	-	-	-	5.0	-	0.3	5.0
	6	0.5	0.2	-	-	4.4	0.1	0.3	2.0
	8	0.6	0.5	-	-	5.5	3.1	2.0	4.0
	10	1.4	1.1	-	-	5.6	5.3	3.9	7.3

Sizing tables

Connecting duct diameter (in)	Neck velocity (fpm)	200	300	400	500	600	700	800	900	1000	1100
	Velocity pressure (in.w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.076
5	Airflow (cfm)	27	41	55	68	82	95	109	123	136	150
	Neg. static pressure (in.w.g.)	0.009	0.021	0.037	0.059	0.084	0.115	0.150	0.190	0.234	0.283
	NC	-	-	-	-	-	-	-	-	-	16
6	Airflow (cfm)	39	59	79	98	118	137	157	177	196	216
	Neg. static pressure (in.w.g.)	0.010	0.023	0.040	0.063	0.091	0.124	0.162	0.205	0.253	0.306
	NC	-	-	-	-	-	-	-	-	-	-
8	Airflow (cfm)	70	105	140	175	209	244	279	314	349	384
	Neg. static pressure (in.w.g.)	0.010	0.023	0.041	0.064	0.092	0.125	0.164	0.207	0.256	0.310
	NC	-	-	-	-	-	-	-	-	-	16
10	Airflow (cfm)	109	164	218	273	327	382	436	491	545	600
	Neg. static pressure (in.w.g.)	0.013	0.029	0.051	0.080	0.115	0.156	0.204	0.258	0.319	0.386
	NC	-	-	-	-	-	16	19	21	22	24

EPI 48" x 24"

Sound attenuation

Sound attenuation of the diffuser ΔL from duct to room in dB.

Dash (-) denotes attenuation was not determined.

Diffuser	Connecting duct diameter (in)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
48" x 24"	5	-	-	-	-	8.4	3.7	4.6	0.5
	6	-	-	-	-	5.6	4.0	3.5	1.1
	8	-	0.6	-	-	8.7	5.8	6.5	3.2
	10	-	1.0	1.5	1.6	8.8	3.6	4.7	4.6

Sizing tables

Connecting duct diameter (in)	Neck velocity (fpm)	200	300	400	500	600	700	800	900	1000	1100
	Velocity pressure (in.w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.076
5	Airflow (cfm)	27	41	55	68	82	95	109	123	136	150
	Neg. static pressure (in.w.g.)	0.010	0.021	0.038	0.059	0.086	0.117	0.152	0.193	0.238	0.288
	NC	-	-	-	-	-	-	-	-	15	16
6	Airflow (cfm)	39	59	79	98	118	137	157	177	196	216
	Neg. static pressure (in.w.g.)	0.010	0.022	0.039	0.062	0.089	0.121	0.158	0.200	0.247	0.298
	NC	-	-	-	-	-	-	-	-	-	-
8	Airflow (cfm)	70	105	140	175	209	244	279	314	349	384
	Neg. static pressure (in.w.g.)	0.011	0.025	0.045	0.070	0.101	0.138	0.180	0.228	0.281	0.340
	NC	-	-	-	-	-	-	-	16	19	21
10	Airflow (cfm)	109	164	218	273	327	382	436	491	545	600
	Neg. static pressure (in.w.g.)	0.015	0.033	0.059	0.093	0.134	0.182	0.237	0.300	0.371	0.449
	NC	-	-	-	-	-	-	16	18	20	21