

**FILTER AIR RESISTANCE**
**HCF BOX FILTER**

Air Flow (cfm)	Pressure drop (in. w.c.)								
	HCF14-11	<sup>1</sup> HCF14-13	HCF14-16	HCF16-11	<sup>1</sup> HCF16-13	HCF16-16	HCF20-11	HCF20-13	HCF20-16
800	0.11	0.10	0.14	0.09	0.10	0.12	0.06	0.07	0.09
1000	0.15	0.13	0.18	0.13	0.13	0.16	0.09	0.10	0.12
1200	0.20	0.17	0.24	0.17	0.17	0.21	0.12	0.13	0.15
1400	0.25	0.21	0.29	0.21	0.21	0.25	0.15	0.16	0.19
1600	Not recommended			0.27	0.26	0.31	0.18	0.19	0.23
1800	Not recommended						0.22	0.22	0.27
2000	Not recommended						0.27	0.26	0.31

<sup>1</sup> Calculated values based on HCF20-13 ASHRAE Standard 52.2-2017 performance.

**FILTER AIR RESISTANCE**
**HCXF EXPANDABLE FILTER**

Air Flow (cfm)	Pressure drop (in. w.c.)					
	HCXF14-11	HCXF14-16	HCXF16-11	HCXF16-16	HCXF20-11	HCXF20-16
800	0.11	0.14	0.12	0.12	0.06	0.09
1000	0.15	0.18	0.19	0.16	0.09	0.12
1200	0.20	0.24	0.22	0.21	0.12	0.15
1400	0.27	0.29	0.26	0.25	0.15	0.19
1600	Not recommended		0.30	0.31	0.18	0.23
1800	Not recommended				0.22	0.27
2000	Not recommended				0.27	0.31

**MINIMUM FILTER EFFICIENCY**

Filter Model No.	MERV Rating	Filter Efficiency (percentage)		
		E1 (0.3 to 1.0 microns)	E2 (1.0 to 3.0 microns)	E3 (3.0 to 10.0 microns)
HCF14-11 / HCXF14-11 HCF16-11 / HCXF16-11 HCF20-11 / HCXF20-11	<sup>1</sup> 11	28%	65%	87%
HCF14-13 HCF16-13 HCF20-13	<sup>2</sup> 13	54%	86%	99%
HCF14-16 / HCXF14-16 HCF16-16 / HCXF16-16 HCF20-16 / HCXF20-16	<sup>1</sup> 16	95%	99%	100%

<sup>1</sup> Values are based on lab tests conducted with conditions included in ASHRAE Standard 52.2 2012.

<sup>2</sup> Values are based on lab tests conducted with conditions included in ASHRAE Standard 52.2 2017.