

## TECHNICAL SPECIFICATIONS

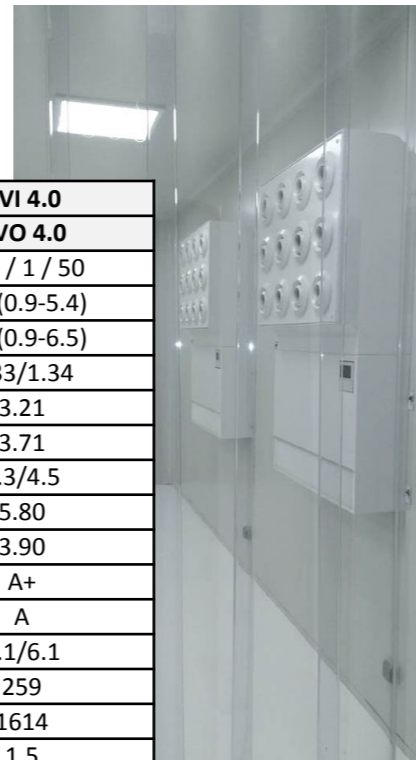
Model No.	Indoor Unit		AVI 4.0
	Outdoor Unit		AVO 4.0
Power Source	V / Ø / Hz		230 / 1 / 50
Capacity	Cooling*	kW	4.3 (0.9-5.4)
	Heating*		5.0 (0.9-6.5)
Input Power	Cooling/Heating*		kW 1.33/1.34
EER	Cooling*		W/W 3.21
COP	Heating*		3.71
Pdesign	Cooling/Heating		kW 4.3/4.5
SEER	Cooling*		W/W 5.80
SCOP	Heating*		3.90
Energy Efficiency Class	Cooling*		A+
	Heating*		A
Running Current	Cooling/Heating*		A 6.1/6.1
Annual Energy Consumption	Cooling*		kWh/a 259
	Heating*		1614
Moisture Removal*			l/h 1.5
Sound Pressure (Cooling)	Indoor	H/M/L/Q	dB(A) 32/30/28/26
	Outdoor	High	
Sound Power (Cooling)	Indoor	High	60
	Outdoor	High	62
Airflow Rate (High)	Indoor/Outdoor		m³/h 800m³/h   1910m³/h
Net Dimension H x W x D	Indoor	Basic	mm 1460 x 900 x 340
			kg 125
		Pressure Unit	mm 300 x 900 x 235
	Outdoor	kg 25,5 (Pos. Press. Unit) 21 (Neg. Press. Unit)	
		mm 578 x 790 x 300	
		kg 40	
Piping Connections (Small / Large)			mm 6.35/12.70
Drain Hose Diameter (I.D. / O.D.)			mm 25/32
Max. Pipe Length (Pre-Charge)			m 25 (15)
Max. Height Difference			15
Operation Range	Cooling		°CDB 10 to 46
	Heating		15 to 24
Refrigerant (Global Warming Potential)			R410A (1,975)
Filter Dimensions (L x W x H)	M5 Pre filter		mm 894 x 195 x 33
	H14 HEPA End filter		mm 880 x 692 x 150

\*Specifications are based on the following conditions:

Cooling : Indoor temperature of 27 °CDB / 19 °CWB. and outdoor temperature of 35 °CDB / 24 °CWB.

Heating : Indoor temperature of 20 °CDB / 15 °CWB. and outdoor temperature of 7 °CDB / 6 °CWB.

Pipe length : 7.5 m, Height difference : 0 m. (Outdoor unit - Indoor unit)



## THE FIRST UNIT SUPPLYING STERILE AND CONDITIONED AIR



# AVON

STERILE AND CONDITIONED AIR COMBINED

## UPGRADE YOUR ROOM CLASSIFICATION WITH AVON

AVON is an unique device in the cleanroom industry. It combines HEPA (H14) filter technology with heat pump technology. This makes it possible to create a high-quality indoor climate quickly and inexpensively. Moreover, the device is able to create positive pressure or negative pressure in the room, based on the end-user's requirements.

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**WE'VE ALREADY PRE-ENGINEERED YOUR CLEANROOM**

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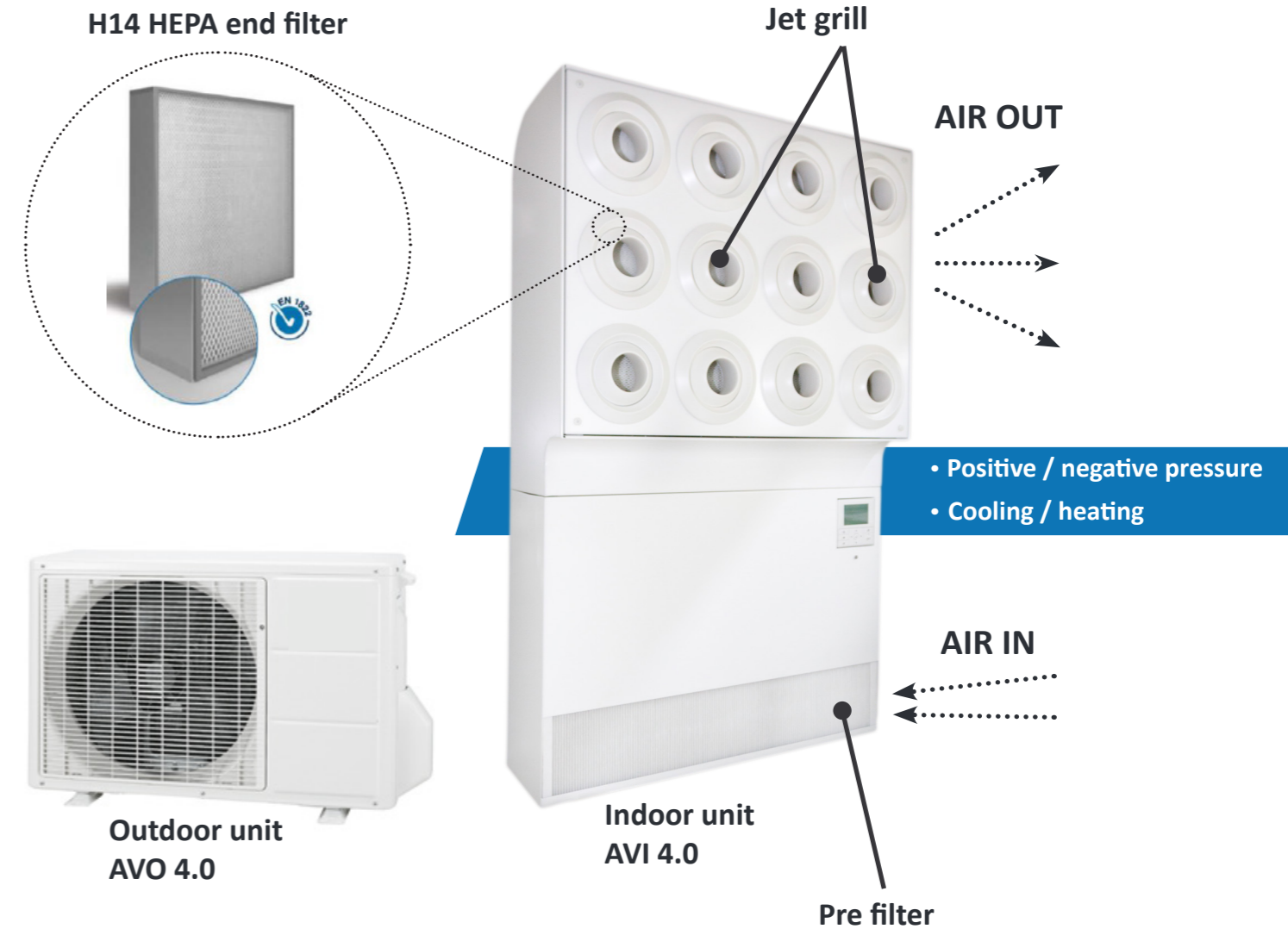
## WITH 2-STEP AIR FILTRATION (H14), THE ROOM CAN BE UPGRADED TO CLEANLINESS CLASS ISO 6.

The AVON is a unique device that is very easy to install. The inner part has to be attached to the outer part on-site. The outer part allows the AVON to control the indoor temperature by cooling or heating.

In addition, the AVON features a connector on the back side to suck in fresh air or blow out air from the room. This gives the end user a choice between positive pressure and negative pressure in the room.

### Unique selling points:

- Clean air at the required temperature
- Choice between positive and negative pressure
- Room upgrade possible to cleanliness class ISO 6
- Compact design
- Low noise level
- Easy set-up



## CAPACITY CHART

AFR | 13.3

		Indoor temperature																						
		18			21			23			25			27			29			32				
		12			15			16			18			19			21			23				
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP		
	-10	4.06	3.23	0.36	4.52	3.25	0.36	4.68	3.54	0.36	4.99	3.55	0.37	5.14	3.83	0.37	5.45	3.81	0.37	5.76	4.06	0.38		
	0	3.97	3.19	0.42	4.42	3.21	0.43	4.57	3.49	0.43	4.87	3.50	0.43	5.03	3.78	0.44	5.33	3.76	0.44	5.63	4.01	0.44		
	5	3.84	3.15	0.53	4.28	3.17	0.54	4.43	3.44	0.54	4.72	3.45	0.54	4.87	3.73	0.55	5.16	3.72	0.55	5.45	3.96	0.56		
	10	3.70	3.09	0.63	4.12	3.11	0.64	4.26	3.38	0.64	4.54	3.39	0.65	4.68	3.66	0.65	4.96	3.65	0.66	5.24	3.88	0.67		
	15	3.75	3.11	0.55	4.18	3.13	0.56	4.32	3.40	0.56	4.60	3.41	0.57	4.75	3.69	0.57	5.03	3.67	0.58	5.32	3.91	0.58		
	20	4.78	3.52	1.20	5.32	3.54	1.22	5.51	3.85	1.22	5.87	3.86	1.24	6.05	4.17	1.24	6.41	4.15	1.26	6.78	4.42	1.27		
	25	4.56	3.44	1.35	5.08	3.46	1.37	5.25	3.76	1.38	5.60	3.77	1.39	5.77	4.07	1.40	6.12	4.05	1.41	6.47	4.32	1.43		
	30	4.33	3.33	1.50	4.82	3.35	1.52	4.98	3.65	1.53	5.31	3.66	1.55	5.48	3.95	1.55	5.81	3.93	1.57	6.13	4.19	1.59		
	35	4.27	3.31	1.78	4.75	3.33	1.81	4.91	3.62	1.82	5.24	3.63	1.84	5.40	3.92	1.85	5.72	3.90	1.87	6.05	4.16	1.88		
40	3.12	2.88	1.27	3.47	2.90	1.29	3.59	3.15	1.29	3.83	3.16	1.31	3.95	3.41	1.31	4.18	3.40	1.33	4.42	3.62	1.34			
46	2.22	2.20	0.96	2.47	2.22	0.98	2.56	2.41	0.98	2.73	2.42	0.99	2.81	2.61	1.00	2.98	2.60	1.01	3.15	2.77	1.02			

AFR	Air Flow Rate (m <sup>3</sup> /min)
TC	Total Capacity (kW)
SHC	Sensible Heat Capacity (kW)
IP	Input Power (kW)

## WE'VE ALREADY PRE-ENGINEERED YOUR CLEANROOM

ABN Cleanroom Technology is a multi-disciplined design, construction and commissioning company that specializes in cleanroom project planning and execution for pharmaceutical, life science and micro-electronics facilities. As European leading innovator in providing Industry 4.0 Connected Cleanrooms, we make cleanroom technology affordable, not only as an investment cost, but more importantly as Total Cost of Ownership.

ABN Cleanroom Technology is widely known for its modular and pre-engineered cleanroom design, leading to increased energy efficiency and reliability, but also to speed in cleanroom projects.

Our daily activities include extensive study; mechanical, electrical, instrumentational, chemical and process engineering; architectural design; procurement; construction management; start-up and commissioning.