



Supplier: AIRTRUST

Project name:

Date: 98.02.24

Document Title: Active Carbon tower technical data

Contract No:

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# AIRTRUST ACTIVE CARBON TOWER: Product Specification

## Ordering and Performance Data

Model	Flow Rate (m3/h)	Port Size(Inch - DN)	Max Pressure (bar g)	Max Temp. (°C)
AAT20	120	G 1	16	50
AAT30	180	G 1	16	50
AAT40	240	G 1	16	50
AAT50	300	G 1	16	50
AAT60	360	G 1 ½	16	50
AAT70	420	G 1 ½	16	50
AAT100	600	G 1 ½	16	50
AAT120	720	G 2	16	50
AAT150	900	DN50	16	50
AAT170	1020	DN65	16	50
AAT200	1200	DN65	16	50
AAT220	1320	DN80	16	50
AAT250	1500	DN80	16	50
AAT350	2100	DN100	16	50
AAT400	2400	DN125	16	50
AAT500	3000	DN125	16	50
AAT700	4200	DN125	16	50
AAT900	5400	DN150	16	50
AAT1000	6000	DN150	16	50

Note: For larger flow rates ,please consult factory.ISO8573-1:2010 Class 1 met when recommended filtration is used

## Recommended Filtration Requirements

<b>Pre-Filter</b>	ISO8573-1:2010Class1,0.01 micron , 0.01 mg/m3 carryover
<b>After- Filter</b>	Solid particulates 1.0 micron

## Operating Range

Site Selection	Frost –free indoor installation in a non-hazardous environment
Ambient Temperature	5-40 °C
Max. Compressed Air Inlet Temp.	50 °C
Max. Operation Pressure	16 bar g
Medium	Compressed air and gaseous N2

Note: Not for breathing air.



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### Dimensions and Weight

Model	Height(mm)	Width (mm)	Weight (kg)
AAT20	1900	255	45
AAT30	1900	290	54
AAT40	2210	330	75
AAT50	2510	360	92
AAT60	2100	385	103
AAT70	2240	445	134
AAT100	2510	475	177
AAT120	2510	525	209
AAT150	2540	500	235
AAT170	2600	500	275
AAT200	2630	650	340
AAT220	2680	660	385
AAT250	2680	750	440
AAT350	2830	860	650
AAT400	2830	960	950
AAT500	3000	1000	1050
AAT700	3200	1000	1260
AAT900	3400	1200	1370
AAT1000	3600	1200	1560

### Correction Factors

Temperature (°C)	Pressure (bar)								
	5 bar	6 bar	7 bar	8bar	9bar	10bar	12bar	14bar	16bar
35°C	0.75	0.89	1.00	1.08	1.26	1.31	1.49	1.71	1.90
40°C	0.64	0.78	0.91	1.00	1.08	1.16	1.36	1.57	1.77
45°C	0.61	0.73	0.82	0.94	1.03	1.07	1.23	1.46	1.68
50°C	0.59	0.67	0.79	0.86	0.99	1.03	1.18	1.38	1.55

Note: Design conditions are 100 psig and 95

### Sizing Example

Actual Flow	150 m3/h
Min. Pressure	7 bar g
Max. Inlet Temp.	40°C
Factor from Table	0.91

Actual Flow/Factor = 150 / 0.91 = 164.8 m3/h  
Select: AAT 30