



# Compressed Air Filtration



FILTERS  
COALESCERS  
ABSORBERS  
ELEMENTS  
MIST ELIMINATORS



## User Benefits

### BOOST QUALITY AND PRODUCTIVITY

- Purify the compressed air by eliminating oil/dust contaminants
- Higher final product quality
- Increase your overall productivity

### SAVE COSTS

- Prolong the life span of your operation process (machine/equipment...)
- Reduce potential downtime
- Annual service intervals to ensure optimal operations

### EASY OPERATION AND INSTALLATION

- Compatible with any compressor technology
- Can be installed quickly and into an existing network
- Optional pressure drop device (indicator/gauge) to advise on the cartridge replacement
- Cartridge replacement done in no time
- No electrical supply needed

## Risks You Avoid

### IMPURITIES IN THE COMPRESSED AIR CAN CAUSE:

- Damage to the distribution lines increasing the leakage risk
- A considerable increase in maintenance costs
- A reduction in the efficiency and life span of the pneumatic devices
- Deterioration of the final product quality
- Limitations to the reliability of the production process and all its components
- Decrease of the overall profitability

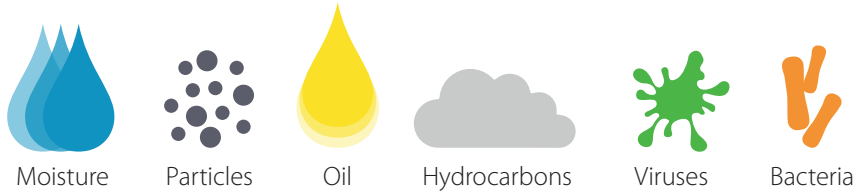
## HOW CLEAN IS YOUR COMPRESSED AIR?

Atmospheric air naturally contains several impurities such as dust, various forms of hydrocarbons and water in the form of humidity. Once sucked into the compressor, these are compressed and delivered down the line along with oily particles.

These polluting agents interact with each other and can generate abrasive and corrosive emulsions that can cause wear and corrosion in the downstream equipment.

Quality Air Solutions remove these contaminations from the compressed air.

### PROTECT YOUR COMPRESSED AIR INSTALLATION AGAINST:



## QUINCY FILTERS KEEP YOUR AIR DISTRIBUTION NETWORK IN OPTIMAL SHAPE!

In any compressed air net distribution it is a must to install one or more filters. As a result, an improved air quality is achieved which benefits your complete compressed air network, including the downstream dryers, air pipes and pneumatic tools. It is recommended to filter your air in different stages by using two or three filters.

Using only a single filter could result in saturation of the filter and cause you to lose air pressure, suffer reduced air quality or end up prematurely replacing your elements.



# IMPORTANT GUIDELINES



When selecting purification equipment for your compressed air system, these are some useful guidelines to consider.

- 1 Depending on the application, each point of use in the system may require a different compressed air quality.
- 2 Ensure that the purification equipment which is being chosen will actually provide the required air purity in accordance with the classifications from the ISO 8573-1:2010 table.
- 3 When comparing filters to one another, make sure they have been tested in accordance with the standards of ISO 8573 and ISO 12500 series.
- 4 Whenever you compare different filtration solutions, it is crucial to keep in mind that the filter performance is highly dependent on the inlet conditions.
- 5 When taking into account the operational cost of oil coalescence filters, only compare the initial saturated wet pressure loss. The reason for this is that dry pressure loss is not representative for performance in a normally wet compressed air system.
- 6 For dust filters on the other hand, one can expect the pressure drop to rise over time. A low starting pressure drop does not mean it will remain as such throughout the filter element's lifetime.
- 7 Consider the total cost of ownership for purification equipment (purchase, operational and maintenance costs).

Your local sales representative can help you to select the optimal purification equipment for your compressed air system.

## COMPRESSED AIR ACCORDING TO ISO 8573-1:2010

Depending on the customer's application, a certain air purity is required. These purity requirements have been categorized in air purity classes. The Purity classes are defined in the ISO 8573-1 standard, edition 2010.

This table defines 7 purity classes ranging from 0 up to 6 following the rule: the lower the class, the higher the air quality.

PURITY CLASS	Solid particles			Water		Total oil*
	number of particles per m <sup>3</sup>			Pressure dewpoint		Concentration
	0.1 - 0.5 µm	0.5 - 1.0 µm	1.0 - 5.0 µm	°C	°F	mg/m <sup>3</sup>
0	As specified by the equipment user or supplier and more stringent than Class 1.					
1	≤ 20,000	≤ 400	≤ 10	≤ -70	≤ -94	≤ 0.01
2	≤ 400,000	≤ 6,000	≤ 100	≤ -40	≤ -40	≤ 0.1
3	-	≤ 90,000	≤ 1000	≤ -20	≤ -4	≤ 1
4	-	-	≤ 10,000	≤ 3	≤ 37.4	≤ 5
5	-	-	≤ 100,000	≤ 7	≤ 44.6	-
6	≤ 5 mg/m <sup>3</sup>			≤ 10	≤ 50	-

\* Liquid, aerosol and vapour.

## FILTER RANGE OVERVIEW



### QMF FILTER RANGE

Micronic coalescing filters for general purpose protection, removing solid particles, liquid water and oil aerosol.

**Total Mass Efficiency: 99 %**



### QPF FILTER RANGE

Particulate filters for dust protection. Removes solid particles, dust, liquid and oil aerosol.

**Total Mass Efficiency: 90 %**  
(MPPS = 0.1 micron)



### QCF FILTER RANGE

High-efficiency coalescing filters, removing solid particles, liquid water and oil aerosol.

**Total Mass Efficiency: 99.9 %**



### QAF FILTER RANGE

Activated carbon filter for removal of oil vapour and hydrocarbon odors with a maximum remaining oil content of 0,003 mg/m<sup>3</sup> (0,003 ppm).

**1000 Hour Lifetime**

The quality of air required throughout a typical compressed air system varies. Offering an extensive filter range, Quincy Compressor can always match your precise requirements, ensuring that all types of contamination are avoided and costs are reduced to an absolute minimum.



	QMF	QCF	QPF	QAF
Filter Type	Oil aerosol & solid particles	Oil aerosol & solid particles	Oil aerosol & solid particles	Oil vapor
Test Method	ISO 12500-1 ISO 8573-2	ISO 12500-1 ISO 8573-2	ISO 12500-1 ISO 12500-3 ISO 8573-2	ISO 8573-5
Inlet: Off Concentration (mg/m <sup>3</sup> )	10	10	10	0.01
Count Efficiency (% at MPPS) **	NA	NA	(MPPS = 0.01 μm) 89.45	NA
Count Efficiency (% at 1 μm)	NA	NA	94.19	NA
Count Efficiency (% at 0.01 μm)	NA	NA	93.63	NA
Max Oil Carry-Over (mg/m <sup>3</sup> )	0.1	0.01	1	0.003
Dry Pressure Drop (mbar)	NA	NA	85	160
Wet Pressure Drop (mbar) *	205	240	115	NA
Wet Pressure Drop (mbar), in typical compressor installation	185	200	NA	NA
Element Service	After 4,000 operating hours or 1 year	After 4,000 operating hours or 1 year	After 4,000 operating hours or 1 year	After 4,000 operating hours or 1 year
Precede with	Water separator	QMF	-----	QMF & QCF

\* Inlet oil concentration = 10 mg/m<sup>3</sup>

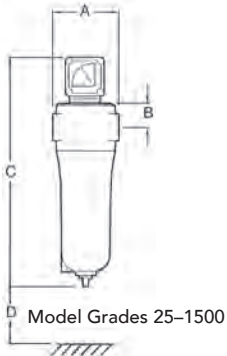
\*\* MPPS = Most Penetrating Particle Size

# A SOLUTION FOR EVERY AIR QUALITY



## TECHNICAL TABLE

	Normal Capacity		Maximum Pressure		Connections/ Port thread	Dimensions			Free space for cartridge replacement	Weight
	m <sup>3</sup> /h	cfm	bar	psi		inch	A	B	C	
Q_F 25	43	25	16	232	3/8"	3.6	1	9	3	2.2
Q_F 50	90	50	16	232	1/2"	3.6	1	9	3	2.4
Q_F 75	126	75	16	232	1/2"	3.6	1	9	3	2.9
Q_F 100	180	100	16	232	1"	4.3	1.1	11.9	3	4.2
Q_F 175	288	175	16	232	1"	4.3	1.1	11.9	3	4.6
Q_F 300	504	300	16	232	1 1/2"	5.5	1.3	11.7	3.9	9.3
Q_F 400	684	400	16	232	1 1/2"	5.5	1.3	20.9	3.9	9.9
Q_F 550	936	550	16	232	1 1/2"	5.5	1.3	20.9	3.9	10.1
Q_F 750	1296	750	16	232	2 1/2"	7.1	2	24.3	5.9	15.2
Q_F 1000	1890	1000	16	232	3"	8.3	2	28.3	7.9	24.3
Q_F 1500	2430	1500	16	232	3"	8.3	2	35	7.9	27.8



Reference condition: pressure 7 bar.  
(102 psi).

Maximum operating temperature of 151°F,  
and 95°F, only for QAF series.

Minimum operating temperature of 34°F

## ASME WELDED STEEL FILTERS

	Normal Capacity	Maximum Pressure		Connections	Dimensions			Free space for cartridge replacement	Weight
					A	B	C	D	
Q_F 1800	1800	10	150	4	42.4	20.1	33.3	25.8	311
Q_F 2400	2400	10	150	4	42.4	20.1	33.3	25.8	316
Q_F 3000	3000	10	150	6	46.8	24.4	35.4	26	363
Q_F 3800	3800	10	150	6	49.8	25.2	38.6	26	368
Q_F 4500	4500	10	150	6	49.8	25.2	38.6	26	392
Q_F 6000	6000	10	150	8	57	32.3	41.3	26	926
Q_F 8500	8500	10	150	8	57	32.3	41.3	26	944
Q_F 10500	10500	10	150	8	57	32.3	41.3	26	953

Inlet pressure (bar)	1	2	3	4	5	6	<b>7</b>	8	10	12	14	16
Inlet pressure (psig)	15	29	44	58	72.5	87	<b>102</b>	116	145	174	203	232
Correction factor	0.38	0.53	0.65	0.75	0.83	0.92	<b>1</b>	1.06	1.2	1.31	1.41	1.5

For other compressed air inlet pressures, multiply the filter capacity by the following correction factors

## HIGH TEMPERATURES

### »» 1 MICRON DUST FILTERS, 450°F, 150 PSIG

- Designed specifically for Heat Reactivated Desiccant Air Dryers
- Nomex outer layer is provided for high-temperature operation
- Push-to-fit design used on threaded filters for easy filter element replacement
- Multiwrap element construction provides optimum performance

### »» ALUMINUM HOUSING THREADED NPT CONNECTIONS 15 TO 650 CFM, SERIES HTDT

- Features a high-temperature dust filter with heavy-duty bowl
- Ribbed bowl facilitates removal when changing elements

**NOTE:** Alloy filters shipped loose will have a special high-temperature black powder coat paint.





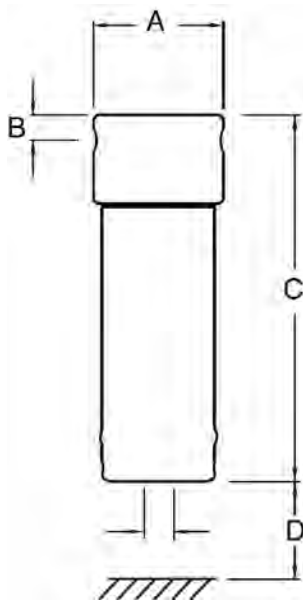
# SPECIFICATIONS & ENGINEERING DATA

Dust Filters — Threaded										Metric					
Filter Model	Pipe Size NPT	Flow Rate		Element Model (Grade)	Number of Elements	Dimensions				Weight lb.	Weight kg.	Dimensions			
		scfm	Nm <sup>3</sup> /hr			A In.	B In.	C In.	D In.			A mm	B mm	C mm	D mm
HTDT 15	¼	15	25	HTDE 15	1	2½	½	6	2	0.5	0.25	63	15	150	50
HTDT 30	¾	30	50	HTDE 30	1	2½	½	7½	2	0.6	0.27	63	15	190	50
HTDT 65	½	65	108	HTDE 65	1	4½	1½	12	6	5.7	2.60	114	38	305	150
HTDT 75	¾	75	125	HTDE 75	1	4½	1½	12	6	5.7	2.60	114	38	305	150
HTDT 150	1	150	250	HTDE 150	1	4½	1½	15½	6	7.3	3.30	114	38	395	150
HTDT 300	1½	300	500	HTDE 300	1	5½	2	21	7	16.5	7.50	146	50	435	170
HTDT 450	2	450	750	HTDE 450	1	5½	2	21	7	16.5	7.50	146	50	435	170
HTDT 650	2	650	1084	HTDE 650	1	5½	2	25	7	22.0	10.00	146	50	635	170

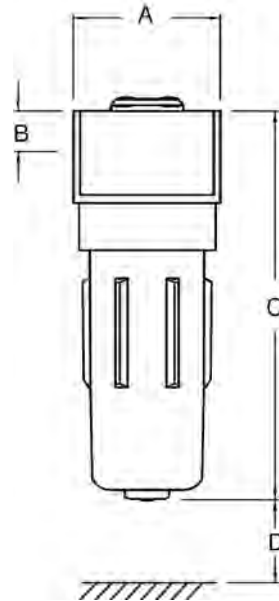
Specs		Particle Removal in Microns	Max. Oil Carryover		Max. Temperature		Pressure Loss		Change Element		Max. Working Pressure		Element End Cap Color Code		
Filter Element	Element		at 68°F ppm	at 20°C mg/m <sup>3</sup>	°F	°C	Clean & Dry psi mbar	Wet psi mbar	psi mbar	psi mbar	psig barg	barg			
<b>High-temperature dust filter element grade</b>															
HTDE		1	2	2	450	250	1.1	75	NA	NA	6	400	150	10	Brick Red

Correction Factor						
Operating Pressure	psig	145	290	435	580	725
	barg	10	20	30	40	50
Correction Factor		0.34	0.57	0.71	0.86	1.0

For maximum flow rate, multiply model flow rate shown in the above table by the correction factor corresponding to the working pressure.



Models HTDT 15 & 30



Models HTDT 65-650



# MECHANICAL MOISTURE SEPARATORS

## 20 TO 1500 CFM, 230 PSIG, SERIES WSNT

Quincy Mechanical Moisture Separators are designed to remove bulk liquids and large volumes of water. They are typically installed downstream of after coolers, air receivers, refrigerated air dryers and at strategic points of use throughout the compressed air distribution system. The design employs an internal spinner to create a centrifugal action that effectively removes large quantities of water.

- Large sump and quiet zone to prevent moisture re-entrainment
- Modular design allows for easy installation of multiple housings and saves energy
- Annular seal and captive O-ring prevent leaks
- Aluminum housings (1/4" to 3 NPT) feature electrophoretic coating to prevent corrosion
- Aluminum housings (1/4" to 3" NPT) carry a 10-year housing guarantee
- Standard automatic condensate drain



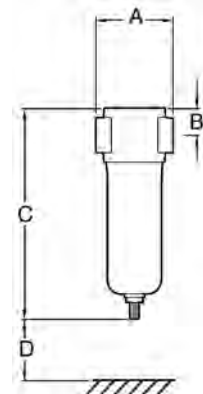
## SPECIFICATIONS & ENGINEERING DATA

Moisture Separators				Dimensions				Metric Dimensions					
Filter	Pipe Size	Flow Rate		A	B	C	D	Weight		A	B	C	D
WSNT 20	1/4"	20	35	3	1 1/4"	8 1/4"	3	1.45	0.65	72	35	210	75
WSNT 30	3/8"	30	50	3	1 1/4"	8 1/4"	3	1.45	0.65	72	35	210	75
WSNT 63	1/2"	63	112	3 1/2"	1 1/4"	8 1/4"	4	2.90	1.30	88	32	210	100
WSNT 127	3/4"	127	216	5	1 1/2"	12	4	5.95	2.70	125	39	300	100
WSNT 176	1"	176	300	5	1 1/2"	12	4	5.95	2.70	125	39	300	100
WSNT 318	1 1/4"	318	540	5	1 1/2"	12	4	5.95	2.70	125	39	300	100
WSNT 427	1 1/2"	427	725	5 1/2"	2"	19	6	9.70	4.40	135	50	480	150
WSNT 675	2"	675	1150	5 1/2"	2"	19	6	9.70	4.40	135	50	480	150
WSNT 1000	2 1/2"	1000	1700	8	2 3/4"	24	8	25.5	11.5	200	68	590	200
WSNT 1500	3"	1500	2550	8	2 3/4"	24	8	25.5	11.5	200	68	590	200

Specs	Max. Recommended Operating Temp. F	Max. Recommended Operating Temp. C	Min. Recommended Operating Temp. F	Min. Recommended Operating Temp. C	Typical Pressure Loss At Rated Flow psi	Typical Pressure Loss At Rated Flow mbar	Max. Working Pressure psig	Max. Working Pressure barg
Filter Model	248	120	35	1.5	0.7	50	232	16

Correction Factor		4	9	15	29	44	58	72	87	100
Operating Pressure psig	0.3	0.6	1	2	3	4	5	6	7	
Correction Factor	0.21	0.29	0.38	0.53	0.65	0.76	0.84	0.92	1	
Operating Pressure psig	115	130	145	160	174	189	203	218	232	
Operating Pressure barg	8	9	10	11	12	13	14	15	16	
Correction Factor	1.07	1.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51	

For maximum flow rate, multiply model flow rate shown in the above table by the correction factor corresponding to the working pressure.





## HIGH-PRESSURE

### ▶▶▶ ALUMINUM FILTERS

#### Coalescer — Absorber

Quincy's aluminum alloy, 750 psig high pressure filter lineup offers an economic alternative to the high cost of stainless steel. There are two levels of coalescing and an activated carbon absorber. Ideally suited for the PET bottle blowing industry, the coalescers remove various levels of liquid aerosols and the activated carbon absorber removes vapor and odors.

- High-temperature capacity (250°F)
- Multiwrap element construction for optimum performance and long life
- Synthetic lubricant and mineral oil compatibility
- Large sump and quiet zone to prevent re-entrainment
- Push-to-fit design for easy filter element replacement
- Modular design allows for easy installation of multiple filters and saves energy

#### 750 PSIG/250°F

150 to 3000 scfm (1/2" to 2" NPT)

- HSCT standard coalescer
- HPCT polishing coalescer
- HACT activated carbon



### ▶▶▶ STAINLESS STEEL FILTERS

#### Coalescer — Absorber

Quincy's line of 316 grade Stainless Steel filters for pressure requirements of 750 psig through 5000 psig feature:

- Three pressure ranges (750 psig, 1,500 psig, 5,000 psig)
- Heavy-duty, Stainless Steel tie rod design for 1500 psig and 5000 psig

#### 750 PSIG/250°F

60 to 2000 scfm (1/2" to 2" NPT)

- SSCT standard coalescer
- SPCT polishing coalescer
- SACT activated carbon

#### 1500 PSIG/250°F

65 to 2050 scfm (1/2" to 2" NPT)

- ESCT standard coalescer
- EPCT polishing coalescer
- EACT activated carbon

#### 5000 PSIG/250°F

28 to 775 scfm (1/2" to 1 1/2" NPT)

- VSCT standard coalescer
- VPCT polishing coalescer
- VACT activated carbon

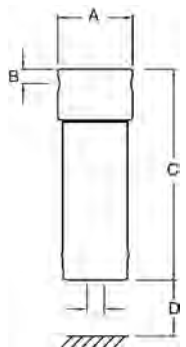


# HIGH-PRESSURE

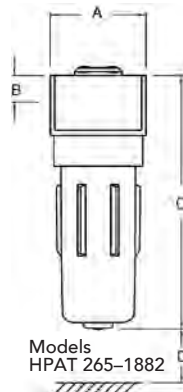
## 750 PSIG - SPECIFICATIONS & ENGINEERING DATA

Aluminum, 750 psig												Metric			
Filter Model (Grade)	Pipe Size NPT	Flow Rate scfm	Flow Rate Nm <sup>3</sup> /hr	Element Model (Grade)	Number of Elements	A In.	B In.	C In.	D In.	Weight lb.	Weight kg.	Dimensions A mm	Dimensions B mm	Dimensions C mm	Dimensions D mm
Grade 94	1/4	94	160	H_E 94	1	2 1/2	1/2	6	2	0.5	0.25	63	15	150	50
Grade 147	3/8	147	250	H_E 147	1	2 1/2	1/2	7 1/2	2	0.6	0.27	63	15	190	50
Grade 265	1/2	265	450	H_E 265	1	4 1/2	1 1/2	12	6	5.7	2.60	114	38	305	150
Grade 324	3/4	324	550	H_E 324	1	4 1/2	1 1/2	12	6	5.7	2.60	114	38	305	150
Grade 492	1	492	835	H_E 492	1	4 1/2	1 1/2	15 1/2	6	7.3	3.30	114	38	395	150
Grade 1015	1 1/2	1015	1725	H_E 1015	1	5 3/4	2	21	7	16.5	7.50	146	50	435	170
Grade 1132	2	1132	1925	H_E 1132	1	5 3/4	2	21	7	16.5	7.50	146	50	435	170
Grade 1882	2	1882	3200	H_E 1882	1	5 3/4	2	25	7	22.0	10.00	146	50	635	170

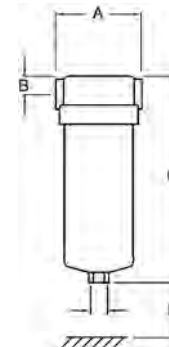
Specs		Max. Oil Carryover at 68°F at 20°C				Max. Temperature				Pressure Loss				Max. Working Pressure		Element End Cap Color Code
Filter Element	Particle Removal in Microns	ppm	mg/m <sup>3</sup>	°F	°C	Clean & Dry psi	Wet psi	Change Element psi	Wet mbar	psi	mbar	psi	mbar	psig	barg	
<b>High-pressure aluminum filter element grades, 750 psig</b>																
HSCE	1	0.1	0.1	248	120	1.1	75	2.2	150	6	400	750	50	Black		
HPCE	0.01	0.01	0.01	248	120	1.5	100	4.4	300	6	400	750	50	Black		
HACE	0.01	0.003	0.003	77	25	1.1	75	see notes				750	50	Black		



Models HPAT 94 & 147



Models HPAT 265-1882



Models HPST 60-2000

Stainless Steel, 750 psig												Metric			
Filter Model (Grade)	Pipe Size NPT	Flow Rate scfm	Flow Rate Nm <sup>3</sup> /hr	Element Model (Grade)	Number of Elements	A In.	B In.	C In.	D In.	Weight lb.	Weight kg.	Dimensions A mm	Dimensions B mm	Dimensions C mm	Dimensions D mm
Grade 60	1/4	60	100	S_E 60	1	3 1/2	3/4	7	3	3.80	1.70	85	18	170	75
Grade 120	3/8	120	200	S_E 120	1	3 1/2	3/4	8	4	4.40	2.00	85	18	205	100
Grade 200	1/2	200	340	S_E 200	1	3 1/2	3/4	10	4	4.90	2.20	85	18	255	100
Grade 300	3/4	300	500	S_E 300	1	4 1/2	1 1/4	11	6	8.80	4.00	110	27	270	150
Grade 600	1	600	1000	S_E 600	1	4 1/2	1 1/4	17	12	11.0	5.00	110	27	420	300
Grade 1000	1 1/2	1000	1700	S_E 1000	1	6	1 3/4	21	12	33.0	15.0	150	45	525	300
Grade 1200	2	1200	2040	S_E 1200	1	6	1 3/4	21	12	33.0	15.0	150	45	525	300
Grade 2000	2	2000	3400	S_E 2000	1	6	1 3/4	33	20	46.0	21.0	150	45	825	500

Specs		Max. Oil Carryover at 68°F at 20°C				Max. Temperature				Pressure Loss				Max. Working Pressure		Element End Cap Color Code
Filter Element	Particle Removal in Microns	ppm	mg/m <sup>3</sup>	°F	°C	Clean & Dry psi	Wet psi	Change Element psi	Wet mbar	psi	mbar	psi	mbar	psig	barg	
<b>High-pressure stainless steel filter element grades, 750 psig</b>																
SSCE	1	0.1	0.1	248	120	1.1	75	2.2	150	10	700	750	50	Black		
SPCE	0.01	0.01	0.01	248	120	1.5	100	4.4	300	10	700	750	50	Black		
SACE	0.01	0.003	0.003	77	25	1.1	75	see notes				750	50	Black		

Correction Factor for Aluminum						
Operating Pressure	psig	145	290	435	580	725
Correction Factor	barg	10	20	30	40	50
Correction Factor		0.34	0.57	0.71	0.86	1.0

Correction Factor for Stainless Steel										
Operating Pressure	psig	58	87	116	145	220	290	435	580	725
Correction Factor	barg	4	6	8	10	15	20	30	40	50
Correction Factor		0.14	0.22	0.28	0.34	0.47	0.56	0.70	0.85	1.0

For maximum flow rate, multiply model flow rate shown in the above table by the correction factor corresponding to the working pressure.

# HIGH-PRESSURE



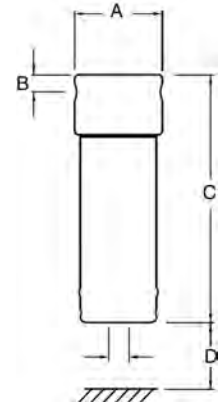
## 1500 & 5000 PSIG - SPECIFICATIONS & ENGINEERING DATA

Stainless Steel, 1500 psig											Metric				
Filter Model (Grade)	Pipe Size NPT	Flow Rate scfm	Flow Rate Nm <sup>3</sup> /hr	Element Model (Grade)	Number of Elements	A In.	Dimensions B In.	Dimensions C In.	D In.	Weight lb.	Weight kg.	Dimensions A mm	Dimensions B mm	Dimensions C mm	Dimensions D mm
<b>High-pressure stainless steel filter element grades, 1500 psig</b>															
Grade 65	1/4	65	110	E__E 65	1	2 3/4	3/4	6	3	7.10	3.20	65	20	135	70
Grade 185	3/8	185	315	E__E 185	1	2 3/4	3/4	10	7	12.3	5.60	65	20	250	180
Grade 270	1/2	270	460	E__E 270	1	3 1/2	3/4	11	10	13.5	6.10	88	20	275	250
Grade 400	3/4	400	680	E__E 400	1	5 1/8	1	11	6	23.2	10.5	132	26	265	150
Grade 700	1	700	1200	E__E 700	1	5 1/8	1	19	12	32.4	14.7	132	26	480	300
Grade 1050	1 1/2	1050	1785	E__E 1050	1	6	1 1/4	21	12	48.5	22.0	150	45	525	300
Grade 2050	2	2050	3485	E__E 2050	1	6	1 1/4	33	20	61.7	28.0	150	45	825	500

Specs		Max. Oil Carryover				Max. Temperature				Pressure Loss		Max. Working Pressure		Element End Cap Color Code	
Filter Element	Particle Removal in Microns	at 68°F ppm	at 20°C mg/m <sup>3</sup>	°F	°C	Clean & Dry psi	Dry mbar	Wet psi	Wet mbar	Change Element psi	Change Element mbar	psig	barg		
<b>High-pressure stainless steel filter element grades, 1500 psig</b>															
ESCE	1	0.1	0.1	248	120	1.1	75	2.2	150	6	400	1500	100	Black	
EPCE	0.01	0.01	0.01	248	120	1.5	100	4.4	300	6	400	1500	100	Black	
EACE	0.01	0.003	0.003	77	25	1.1	75	see notes				1500	100	Black	

Stainless Steel, 5000 psig											Metric				
Filter Model (Grade)	Pipe Size NPT	Flow Rate scfm	Flow Rate Nm <sup>3</sup> /hr	Element Model (Grade)	Number of Elements	A In.	Dimensions B In.	Dimensions C In.	D In.	Weight lb.	Weight kg.	Dimensions A mm	Dimensions B mm	Dimensions C mm	Dimensions D mm
<b>High-pressure stainless steel filter element grades, 5000 psig</b>															
Grade 28	1/4	28	48	V__E 28	1	1 1/4	1/2	4	3	3.50	1.60	41	10	103	60
Grade 67	3/8	67	111	V__E 67	1	2 3/4	3/4	6	3	7.10	3.20	65	20	135	70
Grade 150	1/2	150	255	V__E 150	1	3 1/2	3/4	9	6	12.3	5.60	88	20	210	150
Grade 310	3/4	310	520	V__E 310	1	3 1/2	1	11	10	13.5	6.10	88	25	280	250
Grade 445	1	445	750	V__E 445	1	6	1 1/2	13	8	32.0	14.5	150	35	330	200
Grade 775	1 1/2	775	1330	V__E 775	1	6	1 1/2	19	12	38.4	17.4	150	35	180	300

Specs		Max. Oil Carryover				Max. Temperature				Pressure Loss		Max. Working Pressure		Element End Cap Color Code	
Filter Element	Particle Removal in Microns	at 68°F ppm	at 20°C mg/m <sup>3</sup>	°F	°C	Clean & Dry psi	Dry mbar	Wet psi	Wet mbar	Change Element psi	Change Element mbar	psig	barg		
<b>High-pressure stainless steel filter element grades, 5000 psig</b>															
VSCE	1	0.1	0.1	248	120	1.1	75	2.2	150	10	700	5000	350	Black	
VPCE	0.01	0.01	0.01	248	120	1.5	100	4.4	300	10	700	5000	350	Black	
VACE	0.01	0.003	0.003	77	25	1.1	75	see notes				5000	350	Black	



Models HPST 65-775



Correction Factor for Stainless Steel, 1500 psig										
Operating Pressure	psig	290	435	580	725	870	1015	1160	1300	1500
	barg	20	30	40	50	60	70	80	90	100
Correction Factor		0.45	0.57	0.68	0.80	0.84	0.88	0.92	0.96	1.0

Correction Factor for Stainless Steel, 5000 psig										
Operating Pressure	psig	725	1450	2175	2900	3625	4350	5000		
	barg	50	100	150	200	250	300	350		
Correction Factor		0.73	0.78	0.82	0.87	0.91	0.96	1.0		

For maximum flow rate, multiply model flow rate shown in the above table by the correction factor corresponding to the working pressure.

## MIST ELIMINATOR

### »» HIGH EFFICIENCY HEAVY-DUTY COALESCING FILTER

#### LONG LIFE AND LOW PRESSURE DROP

The Quincy Mist Eliminator is a heavy-duty coalescing type filter engineered to efficiently remove oil, particulate, and water from compressed air. By using a combination of impaction, interception and Brownian Movement, the Quincy Mist Eliminator achieves 100% efficiency in removing particles 3 micron and larger, 99.98% of 0.1 micron and larger and 99.5% of 0.01 micron and larger. Typical pressure drop is less than 1 psig. Average element life in continuous service is 10 years. A 10-year element life can be achieved in relatively clean environments.

- Lower pressure drop compared to conventional coalescing and particulate filters (average 1 psig versus 6 psig). Higher pressure drops require the compressor to operate at an elevated pressure, therefore requiring more power. Every 2 psig reduction in pressure saves approximately 1% air compressor power based on 100 psig operating pressure. Quincy Mist Eliminator could easily save in excess of \$3,000 per year in air compressor electrical energy (based on 8,000 hours per year operation, \$0.07 per Kw hour, 100 hp compressor and a 93% motor efficiency).
- Large tank volume captures and retains inadvertent lubricant discharge caused by compressor separation system malfunction, which protects downstream equipment.
- Average element life of 10 years versus 6 months for conventional coalescing and particulate filter elements reduces maintenance and waste disposal.



*Calibrated Differential Pressure Gauge is standard equipment*

# MIST ELIMINATOR



## SPECIFICATIONS & ENGINEERING DATA

Mist Eliminator			Dimensions Removal		Min. Filter	Flanged Approx Wt. lb.	In/Out Drain Connections In.	Connections In.
Model	scfm @ 100 psig	Max psig	Diameter In.	Height In.	Clearance* In.			
ME 250S	250	150	14	45 <sup>1</sup> / <sub>8</sub>	22	471	1 <sup>1</sup> / <sub>2</sub>	1 NPT
ME 500S	500	150	14	58 <sup>1</sup> / <sub>8</sub>	35	518	2	1 NPT
ME 800S	800	150	14	73 <sup>1</sup> / <sub>4</sub>	50	586	2 <sup>1</sup> / <sub>2</sub>	1 NPT
ME 1100S	1100	150	16	78 <sup>1</sup> / <sub>2</sub>	55 <sup>1</sup> / <sub>8</sub>	664	3	1 NPT
ME 1500TP	1500	150	18	69 <sup>7</sup> / <sub>8</sub>	45 <sup>3</sup> / <sub>8</sub>	805	4	1 NPT
ME 1900TP	1900	150	18	74 <sup>7</sup> / <sub>8</sub>	50 <sup>3</sup> / <sub>8</sub>	965	4	1 NPT
ME 2500TP	2500	150	18	86 <sup>7</sup> / <sub>8</sub>	62 <sup>3</sup> / <sub>8</sub>	860	5	1 NPT
ME 3500TP	3500	150	24	86 <sup>11</sup> / <sub>16</sub>	59 <sup>7</sup> / <sub>8</sub>	1400	5	1 NPT
ME 4500TP	4500	150	24	99 <sup>3</sup> / <sub>4</sub>	72 <sup>7</sup> / <sub>8</sub>	1517	6	1 NPT
ME 5000TP	5000	150	24	105 <sup>3</sup> / <sub>4</sub>	78 <sup>7</sup> / <sub>8</sub>	1564	6	1 NPT
ME 6000TP	6000	150	24	120 <sup>7</sup> / <sub>8</sub>	93 <sup>7</sup> / <sub>8</sub>	1726	8	1 NPT
ME 7000TP	7000	150	30	108 <sup>3</sup> / <sub>8</sub>	80 <sup>1</sup> / <sub>8</sub>	2450	8	1 <sup>1</sup> / <sub>2</sub> NPT
ME 8000TP	8000	150	30	116 <sup>3</sup> / <sub>8</sub>	88 <sup>1</sup> / <sub>8</sub>	2520	8	1 <sup>1</sup> / <sub>2</sub> NPT
ME 9000TP	9000	150	30	124 <sup>3</sup> / <sub>8</sub>	96 <sup>1</sup> / <sub>8</sub>	2603	8	1 <sup>1</sup> / <sub>2</sub> NPT
ME 10000TP	10000	150	36	118 <sup>3</sup> / <sub>16</sub>	88 <sup>5</sup> / <sub>8</sub>	3640	10	1 <sup>1</sup> / <sub>2</sub> NPT
ME 15000TP	15000	150	42	132 <sup>11</sup> / <sub>16</sub>	100 <sup>7</sup> / <sub>8</sub>	CF	10	1 <sup>1</sup> / <sub>2</sub> NPT

**Notes:** Larger Sizes Available Consult Factory \* Does Not Include Rigging.



*A Pneumatic No-Loss Demand Drain is optional equipment*

### UNIQUE DOUBLE ELEMENT DESIGN

1,500 cfm through 15,000 cfm models utilize a space-saving double element design (see Figure 2). Using a double nesting technique, the Quincy Mist Eliminator offers high efficiency separation in a low profile package. By nesting an element inside an element, total surface area is greater than conventional single element designs. Due to reduced overall height, the Quincy Mist Eliminator can be installed in locations where conventional single element designs cannot. For example, a 10,000 cfm Quincy Mist Eliminator low profile design is only 118 inches tall. Compare this to other single element designs that are 210 inches tall. That's a reduction of over 7 feet in overall height! Imagine the savings in time and convenience when you change the element or service the unit.

All Quincy Mist Eliminator tanks are ASME coded and stamped. Standard equipment includes a calibrated differential pressure gauge and enamel paint. No Loss Demand Drains are optional. Pressure relief valves are not included but may be required by local codes.

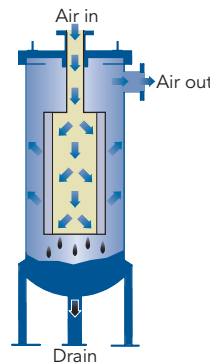


Figure 1

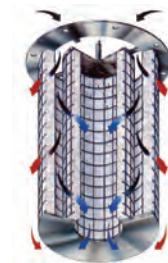


Figure 2

## COMPRESSED AIR FILTERS

### »» QUINCY COMPRESSOR AIR QUALITY PERFORMANCE GUARANTEE

- Quincy Compressor offers a performance guarantee on its Air Treatment Filtration line. Quincy's Filters are guaranteed to perform to the currently published specifications as found in filtration documentation available at [www.quincycompressor.com/literature\\_library.html](http://www.quincycompressor.com/literature_library.html).
- Under normal operating conditions, and when installed in an original installation, the Quincy QCF, QMF, and QPF filter elements meet or exceed air quality standards of ISO 8573. The Quincy filters are guaranteed to operate for 6,000 hours or 12 months, whichever shall occur first, before reaching the recommended 6 PSIG pressure differential for filter replacement.
- Quincy Compressor guarantees that the aforementioned filters will perform as stated above, or Quincy Compressor will either repair or replace the filter or element, at Quincy's discretion. Quincy Compressor will not be responsible for removal, reinstallation and/or related costs.

*The Air Quality Performance Guarantee is in accordance and established based upon Air Quality-ISO 8573 standard for oil-free and contaminant-free compressed air applications. The Air Quality Performance Guarantee remains in effect for the below listed site so far as all installation and maintenance requirements set forth and in accordance with the warranty and policies and procedures handbook, under Section 1 General Information; Warranty Coverage Rules, are maintained.*





## COMPRESSED AIR FILTERS

### »»» THE QUINCY PROMISE

Quincy Compressor and its partnering distributors promise to provide you with uncompromising reliability in all Quincy equipment. This makes your compressed air system one less thing that you need to worry about, allowing you to focus on your company's productivity and profitability.



### »»» THE QUINCY SOLUTION

Operating at peak efficiency and providing quality product is a priority for many of our customers. Quincy Compressor in partnership with our global network of authorized distributors strives to be your provider for all of your compressed air system needs. From the air compressor to filtration to dryers and storage solutions, Quincy Compressor is your single source provider for all of your compressed air system needs.

#### AIR COMPRESSORS

Quincy Compressor is a premier provider of many different types of air compressors designed for a variety of applications using different compression technologies.

The **Quincy QT** is a Reciprocating Splash Lubricated compressor for tough everyday use. The **Quincy QP** is a reciprocating fully pressure lubricated compressor for a competitive advantage. The **Quincy QR** is a reciprocating compressor designed for the most demanding conditions. The **Quincy QGS 5-30 HP** is a heavy-duty belt driven rotary compressor at a competitive price. The **Quincy QSI** provides an industrial grade premium fixed speed rotary screw air compressor. The **Quincy QGV** provides a premium variable speed rotary screw air compressor designed to optimize your energy efficiency.

#### COMPRESSED AIR TREATMENT

Quincy Compressor is your single-source provider of compressed air treatment products to complement your air compressor. Quincy provides refrigerated air dryers, desiccant air dryers, compressed air filtration from 5 to .01 micron, condensate drains, condensate management systems, storage solutions, and flow control valves. Quincy Compressor is truly a single-source provider for all of your compressed air needs.

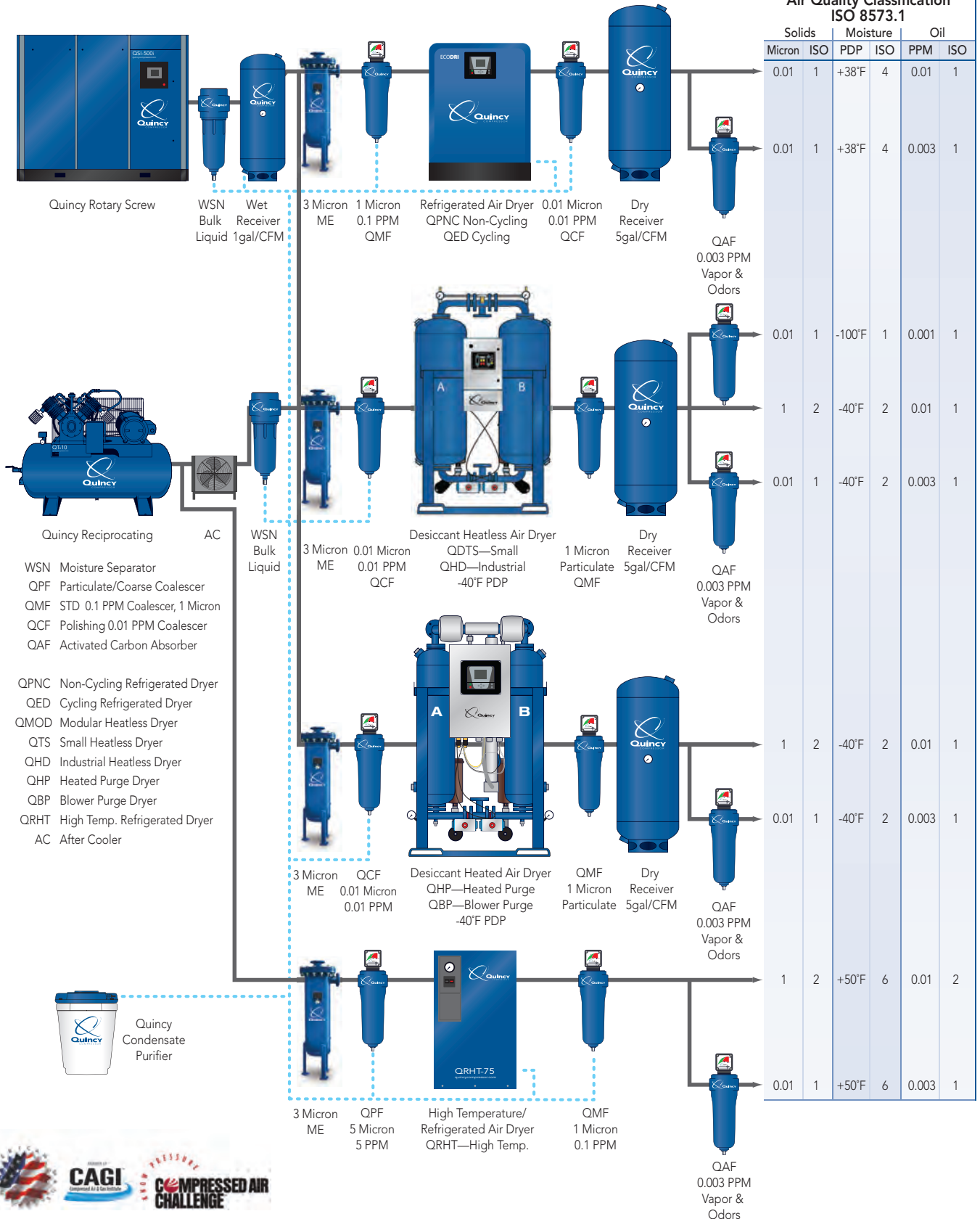
#### GENUINE PARTS

Genuine Parts from Quincy Compressor keep your equipment running like new. When servicing your Quincy compressor, insist on Genuine Quincy parts. Not only will you save time and money, but you will gain the peace-of-mind from using only the highest quality parts worthy of the Quincy name.

#### SYSTEM CONTROLS

Whether you have one air compressor or many air compressors from many different manufacturers, Quincy Compressor provides you with a way to control and monitor all of the components in your compressed air system in a way that maximizes your energy efficiency and decreases your energy costs. Whether you need to control your system on site or from half way around the world, Quincy Compressor is your source for reliable, efficient controls.

# COMPRESSED AIR SYSTEMS BEST PRACTICE



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