

# Water Separators

## TFSE Range for Railway Applications



### Water separators

Parker domnick hunter water separators have been designed for the efficient removal of bulk liquid contamination from compressed air.

Water separators are used to protect coalescing filters in systems where excessive cooling takes place in air receivers and distribution piping.

Using mechanical separation techniques, water separators will remove in excess of 92% bulk liquid contamination.

A filter package combining high-efficiency water separation (better than 92% efficiency) with high-efficiency coalescing technology (oil removal down to 0.01 mg/m<sup>3</sup> and particle retention down to 0.01 micron), ensures that compressed air can be filtered to meet the requirements of both the NF F11-100 standards for rolling stock and the international ISO 8573-1 compressed air quality standards.



### The Parker domnick hunter Design Philosophy

Parker domnick hunter has been supplying industry with high efficiency filtration and purification products since 1963. Our philosophy 'Designed for Air Quality & Energy Efficiency' ensures products that not only provide the user with clean, high quality compressed air, but also with low lifetime costs and reduced CO<sub>2</sub> emissions.



### Contact Information:

Parker Hannifin Ltd  
**domnick hunter Industrial division**  
Dukesway, Team Valley Trading Estate  
Gateshead, Tyne and Wear  
England NE11 0PZ

Tel: +44 (0)191 402 9000  
Fax: +44 (0)191 482 6296  
Email: [dhindsales@parker.com](mailto:dhindsales@parker.com)  
[www.domnickhunter.com/railways](http://www.domnickhunter.com/railways)

### Benefits:

- Protects coalescing filters from bulk liquid contamination.
- Helps provide air quality in accordance with NF F11-100 and ISO 8573-1:2001 the international standard for compressed air quality
- High liquid removal efficiencies at all flow conditions
- Suitable for all compressed air applications
- Reduce operational and maintenance costs
- Reduce set out for service costs
- Suitable for all compressor types
- The world's most energy efficient compressed air water separators
- Low pressure losses ensuring low operational costs
- All water separators are covered by a 10 year housing guarantee
- Peace of mind



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## Technical Data

Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temp**		Max Operating Temp	
	bar g	psi g	bar g	psi g	°C	°F	°C	°F
TFSE float drain*	1	15	16	232	1.5	35	80	176
TFSE manual drain*	1	15	20	290	1.5	35	100	212

\*Other drain options available.

\*\*Lower operating temperatures when fitted with trace heating. Please ask for details.

## Water Separator Coding Example

GRADE	MODEL	PIPE SIZE	CONNECTION TYPE	DRAIN OPTION
SE	MODEL IDENTIFIED	LETTER DENOTES PIPE SIZE	B = BSPT N = NPT	S1 TO S14 F = FLOAT M = MANUAL
SE	060	A	B	F

## Product Selection

Stated flows are for operation at 7 bar g (100 psi g) with reference to 20°C, 1 bar a, 0% relative water vapour pressure. For flows at other pressures apply the correction factors shown.

Model	Pipe Size BSPT	L/sec	m³/min	m³/hr	cfm
TFSE060AB <input type="checkbox"/>	1/4"	10	0.6	36	21
TFSE060BB <input type="checkbox"/>	3/8"	10	0.6	36	21
TFSE060CB <input type="checkbox"/>	1/2"	10	0.6	36	21
TFSE240BB <input type="checkbox"/>	3/8"	40	2.4	144	85
TFSE240CB <input type="checkbox"/>	1/2"	40	2.4	144	85
TFSE240DB <input type="checkbox"/>	3/4"	40	2.4	144	85
TFSE240EB <input type="checkbox"/>	1"	40	2.4	144	85
TFSE660DB <input type="checkbox"/>	3/4"	110	6.6	396	233
TFSE660EB <input type="checkbox"/>	1"	110	6.6	396	233
TFSE660FB <input type="checkbox"/>	1 1/4"	110	6.6	396	233
TFSE660GB <input type="checkbox"/>	1 1/2"	110	6.6	396	233
TFSE2100FB <input type="checkbox"/>	1 1/4"	350	21	1260	742
TFSE2100GB <input type="checkbox"/>	1 1/2"	350	21	1260	742

## Weights and Dimensions

Model	Pipe Size BSPT	Height (H)		Width (W)		Depth (D)		Weight	
		mm	ins	mm	ins	mm	ins	kg	lbs
TFSE060AB <input type="checkbox"/>	1/4"	181	7.2	76	3.0	64	2.5	0.6	1.3
TFSE060BB <input type="checkbox"/>	3/8"	181	7.2	76	3.0	64	2.5	0.6	1.3
TFSE060CB <input type="checkbox"/>	1/2"	181	7.2	76	3.0	64	2.5	0.6	1.3
TFSE240BB <input type="checkbox"/>	3/8"	235	9.3	97	3.8	84	3.3	1.1	2.4
TFSE240CB <input type="checkbox"/>	1/2"	235	9.3	97	3.8	84	3.3	1.1	2.4
TFSE240DB <input type="checkbox"/>	3/4"	235	9.3	97	3.8	84	3.3	1.1	2.4
TFSE240EB <input type="checkbox"/>	1"	235	9.3	97	3.8	84	3.3	1.1	2.4
TFSE660DB <input type="checkbox"/>	3/4"	275	10.8	129	5.1	115	4.5	2.2	4.8
TFSE660EB <input type="checkbox"/>	1"	275	10.8	129	5.1	115	4.5	2.2	4.8
TFSE660FB <input type="checkbox"/>	1 1/4"	275	10.8	129	5.1	115	4.5	2.2	4.8
TFSE660GB <input type="checkbox"/>	1 1/2"	275	10.8	129	5.1	115	4.5	2.2	4.8
TFSE2100FB <input type="checkbox"/>	1 1/4"	432	17	170	6.7	156	6.1	5.1	11.2
TFSE2100GB <input type="checkbox"/>	1 1/2"	432	17	170	6.7	156	6.1	5.1	11.2

