



aerospace  
climate control  
electromechanical  
**filtration**  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



## Compressed air and gases

Cooling Solutions



# Protect the Environment and your Investments...

Air or gases from compressors or blowers are often too humid, contaminated or hot to be used in the distribution or production chain without prior treatment. Aftercoolers can play an essential role in this treatment. The use of high-quality compressed air and gas is essential to ensure the continuity and reliability of industrial processes, the highest quality standards for finished products and the optimization of production costs.

Parker Hiross offers a complete range of solutions for industrial applications including:

- **Air and water-cooled aftercoolers,**
- **Centrifugal or demister separators,**
- **Refrigeration and adsorption dryers,**
- **Condensate drains,**
- **Oil/water separators,**
- **Compressed air filters**
- **Water chillers and dry coolers.**

## **Caring for the environment:**

Parker Hiross has been awarded ISO14001 certification and puts environmental standards at the heart of its production and design. The Parker Hiross solutions guarantee:

- Zero pollution risks, due to a refrigeration system developed and accurately tested to avoid any refrigerant loss.
- No water loss, thanks to the use of water in closed circuit;
- Top energy efficiency, reducing electrical energy consumption to a minimum.

## **A safe investment:**

Designed for industrial applications, Parker Hiross solutions ensure:

- **Careful energy consumption**, by means of the components and technical choices, which aim to reach the maximum energy efficiency and control accuracy in any condition.
- **Reduced maintenance**, thanks to the high quality approach to product design, commissioning and operation.
- **Maximum flexibility** of use in any application;
- **High wear-and-tear resistance.**

# Free your Energy!

# ...with the Parker Hiross solutions.

## Aftercoolers



Water-cooled Hypercool  
(1 - 200 m<sup>3</sup>/min)



Air-cooled Hypercool  
(1 - 75 m<sup>3</sup>/min)

## Separators



Hypersep centrifugal  
(1 - 210 m<sup>3</sup>/min)



Hypersep demister  
(2 - 47 m<sup>3</sup>/min)

# Water-cooled aftercoolers

## Hypercool

Aftercoolers can be installed immediately downstream of compressors or blowers in order to remove over 80 % of the condensate. Their function is to protect the entire compressed air system or production process, as in addition to removing condensate, they also filter out impurities and control the air temperature, which can be very high at the compressor outlet. A high quality aftercooler properly sized is therefore an excellent investment that can help ensure that the compressed air system works properly thereby guaranteeing the quality of the finished product.

### Versions

- Horizontal or vertical version for compact installation
- fixed or removable tube bundles
- carbon steel shell and copper tubes for standard applications
- completely in cupro-nickel for sea water (on request)
- completely in stainless steel for aggressive gas and/or water
- carbon steel shell and stainless steel tubes for aggressive air or gas
- For high pressures up to 40 barg and low pressures down to 1 barg (on request models for pressures up to 80 barg are available)

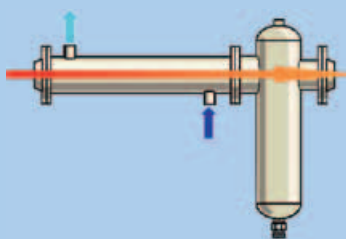
### Accessories

- Centrifugal separator
- Demister separator
- Flanges and counterflanges kit

PED approval is offered as standard for all models. Other International pressure vessel approvals available on request.

### The range Hypercool

Model with fixed or removable tube bundle for air flow rates from 1.2 to 200 m<sup>3</sup>/min.



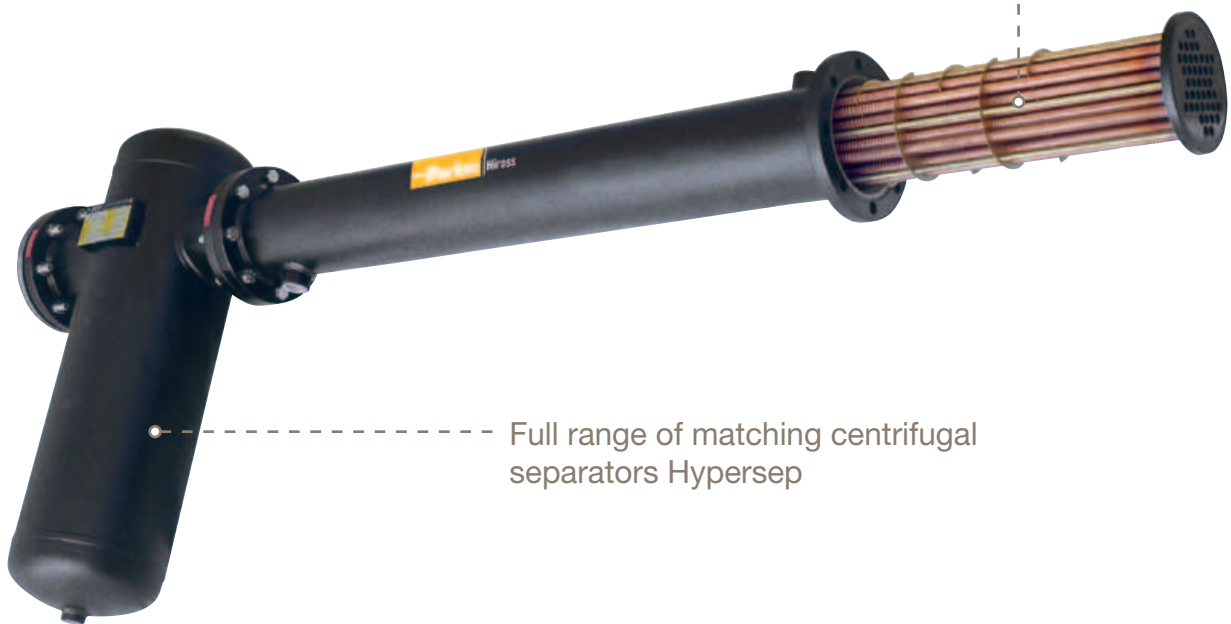
### Operation

Hot compressed air passes through the Aftercooler tubes. Cooling water passes around the tubes in counterflow, the internal baffles forcing it to make several passes for increased efficiency. The air is cooled to a temperature which can be as little as 5 °C above the cooling water inlet temperature. As the compressed air cools, so liquid condensate is created; this is efficiently removed by a centrifugal or demister separator installed at the Aftercooler outlet.

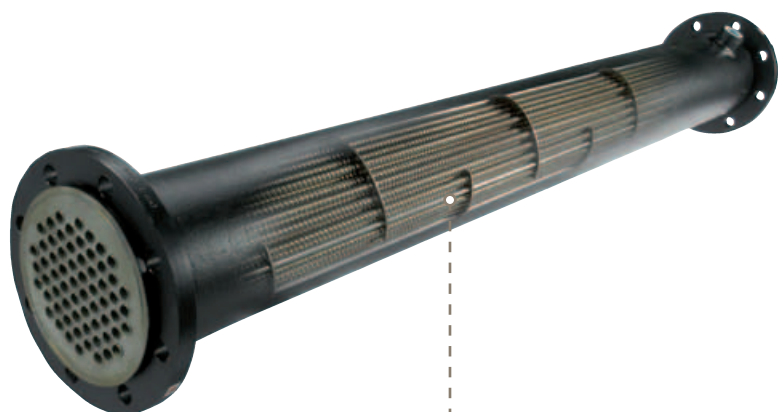
# Water-cooled aftercoolers

## Hypercool

Removable version with ribbed tubes ensures high performance with low pressure drops



Full range of matching centrifugal separators Hypersep



Fixed configuration with stainless ribbed tubes

# Air-cooled aftercoolers

## Hypercool

For applications that require less vigorous air cooling, where no water is available, air-cooled aftercoolers can satisfy the most diverse operating requirements. A pneumatic version is also available for explosion-proof installations.

### Versions

- modular
- standard with aluminium fins and copper tubes
- all copper (fins and tubes)
- for maritime or aggressive applications with epoxy protection
- low pressure drops design
- pneumatic (for operation without electrical power)
- IP55 protection class (standard ANT040-075)
- 25 barg working pressure (ANT040-075)
- standard maximum air inlet temperature: 150 °C (for higher temperatures, special versions are available)

### Accessories

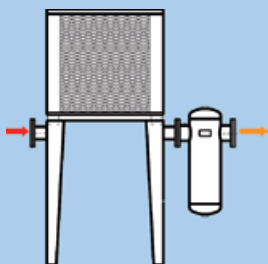
- Centrifugal separator
- Flanges and counterflanges kit
- Support legs (for smaller models)

PED approval is offered as standard for all models. Other International pressure vessel approvals available on request.

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### The range Hypercool

Models for air flows from 0.6 to 75 m<sup>3</sup>/min.



### Operation

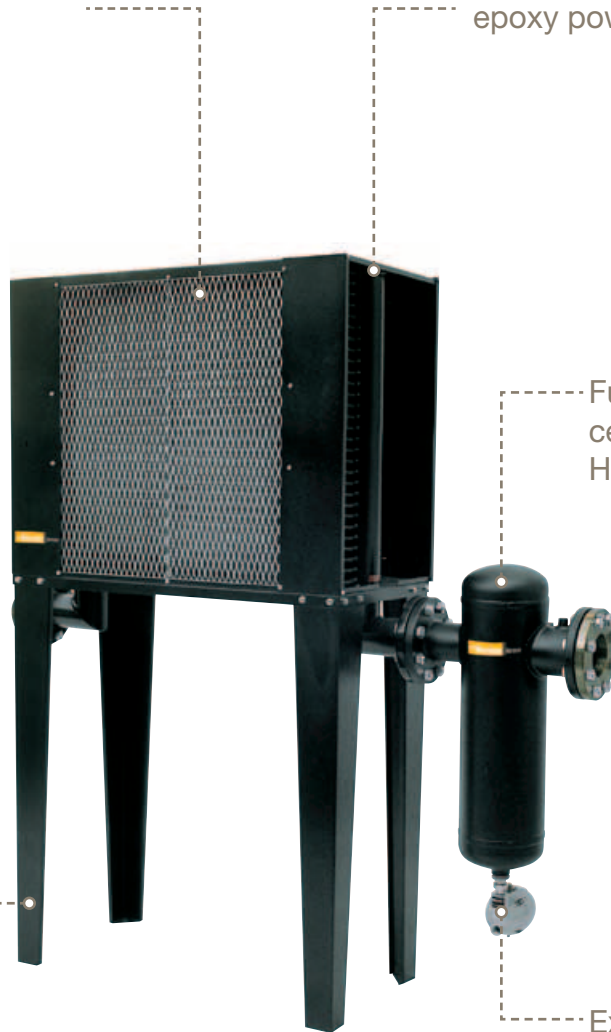
Hot compressed air passes through the aftercooler tubes. Ambient cooling air is forced across these tubes by the fan, with fins on the tubes increasing the cooling effect. The air is cooled to a temperature which can be as little as 5 °C above the ambient temperature. As the compressed air cools, so liquid condensate is created; this is efficiently removed by a centrifugal or demister separator installed at the aftercooler outlet.

# Air-cooled aftercoolers

## Hypercool

Robust construction and compact design

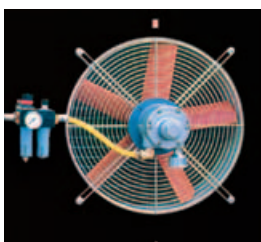
Standard protection with epoxy powder coating



Full range of matching centrifugal separators  
Hypersep

Legs or support plate available on request for smaller models

Extensive range of condensate drains  
Hyperdrain



Available with pneumatic motor for installations where electrical power is either not available or not recommended

# Separators

## Hypersep centrifugal

Hypersep removes more than 99 % of the liquid condensate present in the compressed air network. Hypersep is very compact and easy to install and is offered with a full range of threaded and flanged air connections. It needs no external power source, and it works automatically without any maintenance requirements. Hypersep even removes rust, oil and other impurities, significantly improving the performance of filters and other

downstream equipments. The result is reduced maintenance and downtime. Hypersep's low pressure drops configuration keeps system energy costs at a minimum.

### Versions

- Horizontal or vertical configuration
- in stainless steel
- for high or low air flow

### Accessories

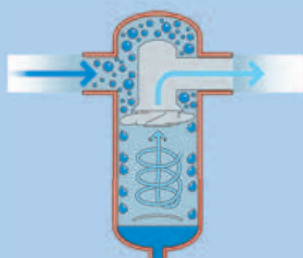
- wall mounting kit
- counterflange kit
- full range of complementary condensate drains (internal, float, timed, electronic)

PED approval is offered as standard for all models. Other International pressure vessel approvals available on request.

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### The range Hypersep

Flanged and threaded models (in horizontal or vertical configuration) for air flow rates from 0.9 to 209.1 m<sup>3</sup>/min. Models for greater air flow rates available on request.



### Operation

centrifugal separator. The moisture-laden air is forced to pass through a directional diffuser which spins the air around the separator's body. Droplets of water are then impinged on the separator wall by centrifugal force and collected at the base of the separator.

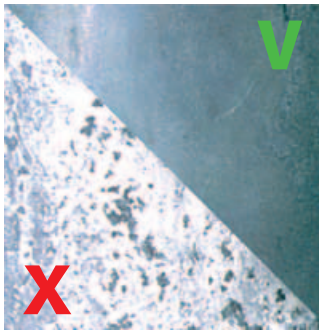


# Separators

## Hypersep centrifugal

### Hiroshield protection:

all threaded models in aluminium feature unique Hiroshield surface protection treatment, applied both inside and outside. Hiroshield ensures that Hypersep can withstand even the toughest industrial conditions.



Extensive range of condensate drains  
**Hyperdrain**



The patented seal mechanism prevent Hypersep from being accidentally opened during operation



**Outlet thermometer** for precision temperature control as option

## Hypersep demister

### The range Hypersep demister

For air flow from 2 up to 46,7 m<sup>3</sup>/min

Demister filter entirely in stainless steel which can be removed without removing the separator from the system for easier maintenance.



Very low pressure drops design

### Operation

demister separators The saturated air at the separator inlet flows through the first demister where the drops of condensate are trapped. They coalesce and increase in size until they fall under gravity and collect at the bottom of the separator. The use of a second demister in series ensures maximum condensate separation efficiency.

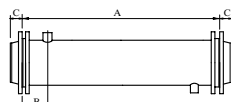
# Technical data

## Hypercool

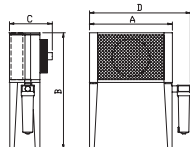
Model	Air flow		Connections		Max. press. bar(g)	Dimensions mm			Weight kg
	m <sup>3</sup> /min	m <sup>3</sup> /h	air	water		A	B	C	
Water-cooled models with fixed tube-bundle									
WFN002	1,2	72	3/4"	3/8"	16	720	78	-	2,5
WFN004	3,5	210	1 1/2"	1/2"	16	980	85	-	5,5
WFN007	6,5	390	1 1/2"	3/4"	16	1000	95	-	8,5
WFN009	9	540	2"	3/4"	16	1020	105	-	10,5
WFN013	13	810	2"	3/4"	16	1050	120	-	15
WFN018	18	1080	DN80	1"	12	900	95	52	22
WFN027	27	1620	DN100	1 1/4"	12	900	115	54	28
WFN036	36	2160	DN100	1 1/4"	12	900	115	54	34
WFN050	50	3000	DN125	1 1/4"	12	1300	100	58	84
WFN060	60	3600	DN150	1 1/4"	12	1300	100	58	105
WFN090	90	5400	DN200	1 1/4"	12	1300	100	62	143
Water-cooled models with removable tube-bundle									
WRN003	3	180	1 1/2"	1/2"	16	849	72	77	16
WRN007	7	420	1 1/2"	1/2"	16	1049	72	77	18
WRN011	11	660	2"	3/4"	16	1299	122	82	22
WRN016	16	960	2"	3/4"	16	1299	122	92	31
WRN022	22	1320	DN100	1"	12	1299	122	55	40
WRN028	28	1680	DN100	1"	12	1299	122	55	42
WRN038	38	2280	DN125	1 1/4"	12	1299	123	58	61
WRN050	50	3000	DN125	1 1/4"	12	1299	123	58	66
WRN060	60	3600	DN150	1 1/4"	12	1299	115	58	82
WRN090	90	5400	DN200	1 1/4"	12	1299	117	65	129
WRN130	130	7800	DN250	1 1/4"	10	1299	116	71	192
WRN170	170	10200	DN300	2"	10	1299	116	71	245
WRN200	200	12000	DN350	2"	10	1299	118	71	330
Air-cooled models									
Model	Air flow		Air connections	Max. press. bar(g)	Dimensions mm				Weight kg
	m <sup>3</sup> /min	m <sup>3</sup> /h			A	B	C	D	
ADS000	0,6	36	3/4"	16	360	794	216	475	14
ADS001	1,2	72	3/4"	16	430	895	277	545	17
ADS003	2,5	150	1 1/2"	16	550	1.140	303	715	31
ADS004	3,5	210	1 1/2"	16	550	1.140	303	715	37
ADT003	2,5	150	1 1/2"	16	550	1.140	403	715	31
ADT004	3,5	210	1 1/2"	16	550	1.140	403	715	37
ADT006	6	360	1 1/2"	16	690	1.315	455	855	58
ADT009	9	540	2"	16	936	1.315	480	1.173	70
ADT014	14	840	2"	16	1.036	1.551	530	1.273	106
ADT018	18	1.080	DN 80	16	1.130	1.869	590	1.704	146
ADT028	28	1.680	DN 80	16	1.480	1.906	628	2.054	181
ADT038	36	2.160	DN 100	16	1.580	1.975	590	2.263	211
ADT048	48	2.880	DN 150	16	2.870	2.239	677	3.650	391
ADT064	64	3.840	DN 150	16	2.870	2.239	677	3.650	429
ADT075	75	4.500	DN 150	16	2.870	2.239	677	3.650	476

Performances refer to models in standard materials, operating with clean cooler, with air at FAD 20°C / 1 bar A, and at the following working conditions: air suction 25 °C/60 %RH, 7 bar<sub>g</sub> working pressure, 120 °C compressed air inlet temperature (for water-cooled models), temperature approach between air outlet and water inlet (water-cooled models) or cooling air (air-cooled models) of ca. 10 °C. The performance of models with non standard materials may differ from those quoted above. Power supply for air-cooled models: ANS single-phase, ANT three-phase. On models with corresponding separator, the air outlet fitting may differ from that indicated above. For technical data for WFB aftercoolers please contact your local Parker Hiross agent.

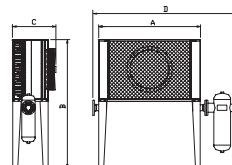
### water-cooled models



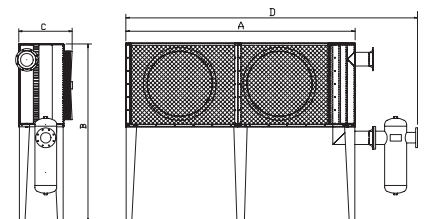
### air-cooled models



000-014



018-038



048-075

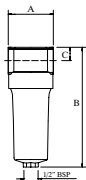
# Technical data

## Hypersep

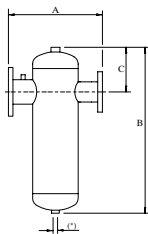
Model	Air flow		Connections air/gas		Max. press. bar(g)	Dimensions mm			Weight kg
	m <sup>3</sup> /min	m <sup>3</sup> /h	in	out		A	B	C	
<b>Threaded models</b>									
STH001	0,9	54	3/8"	3/8"	16	89	267	24	1,1
STH002	2,1	126	1/2"	1/2"	16	89	267	24	1,1
STH003	3	180	3/4"	3/4"	16	89	267	24	1,1
STH006	5,5	330	1"	1"	16	109	367	34	2,2
STH009	9	540	1¼"	1¼"	16	109	367	34	2,2
STH013	12,5	750	1½"	1½"	16	109	367	34	2,2
STH021	21	1260	2"	2"	16	150	550	41	4,3
STH040	40	2400	2½"	2½"	16	188	733	56	12,5
STH046	46	2760	3"	3"	16	188	733	56	12,5
<b>Flanged horizontal models</b>									
SFH029	29,4	1764	DN80	DN80	16	400	720	200	28
SFH030	30	1800	DN100	DN80	16	400	720	200	29
SFH037	36,6	2196	DN100	DN100	16	460	880	230	48
SFH038	38	2280	DN125	DN100	16	460	880	230	49
SFH066	65,6	3936	DN125	DN125	16	550	980	260	55
SFH067	67	4020	DN150	DN125	16	550	980	260	56
SFH088	88,4	5304	DN150	DN150	16	570	1060	290	82
SFH089	89	5340	DN200	DN150	16	570	1060	290	85
SFH097	97,1	5826	DN200	DN200	16	660	1160	320	126
SFH142	141,9	8514	DN250	DN200	10	680	1255	351	148
SFH180	179,5	10770	DN300	DN200	10	750	1455	390	160
SFH209	209,1	12546	DN350	DN200	9	830	1655	430	205
<b>Flanged vertical models</b>									
SFV029	29,4	1764	DN80	DN80	16	200	904	134	29
SFV037	36,6	2196	DN100	DN100	12	230	1051	151	50
SFV066	65,6	3936	DN125	DN125	12	275	1131	171	57
SFV088	88,4	5304	DN150	DN150	12	285	1195	185	84
SFV097	97,1	5826	DN200	DN200	12	330	1295	215	90
SFV142	141,9	8514	DN250	DN200	10	340	1392	242	120
SFV180	179,5	10770	DN300	DN200	10	375	1575	265	145
SFV209	209,1	12546	DN350	DN200	9	415	1763	293	185
<b>Demister models</b>									
SFB120	2	120	DN125	DN50	1	785	191	133	35
SFB220	3,7	220	DN150	DN100	1	932	212	168,3	42
SFB300	5	300	DN150	DN125	1	936	214	193,7	58
SFB500	8,3	500	DN200	DN150	1	1422	285	273	105
SFB700	11,7	700	DN250	DN200	1	1609	285	323,9	140
SFB1000	16,7	1000	DN300	DN200	1	1610	285	355,6	180
SFB1600	26,7	1600	DN350	DN250	1	18880	305	457	240
SFB2000	33,3	2000	DN450	DN300	1	2130	355	508	310
SFB2400	40	2400	DN500	DN350	1	2335	390	609,6	400
SFB2800	46,7	2800	DN500	DN400	1	2155	415	609,6	435

For STH/SFH/SFV performances refer to air at FAD 20 °C/1 bar A, and at the following working conditions: air suction 25 °C / 60 % RH, 7 bar(g) working pressure, 35 °C compressed air inlet temperature, 7kPa pressure drop. STH in aluminium, SFH/SFV in carbon steel. For SFB performances refer to models operating with clean separator, gas flow at 20 °C/1bar A. Nominal working conditions: 60 % CH<sub>4</sub>, 35 % CO<sub>2</sub>, 5 % other gases, working pressure 0,2 bar(g), average pressure drop 1 kPa (± 0,3 kPa). Models for special applications or in other materials are available on request.

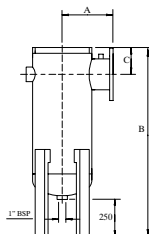
**STH**



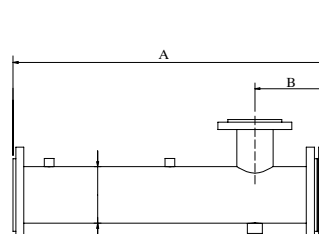
**SFH**



**SFV**



**SFB**



(\*) 029-038 = 1/2" BSP  
066-209 = 1" BSP

# Parker Worldwide

## Europe, Middle East, Africa

**AE – United Arab Emirates,**  
Dubai

Tel: +971 4 8127100  
parker.me@parker.com

**AT – Austria,** Wiener Neustadt

Tel: +43 (0)2622 23501-0  
parker.austria@parker.com

**AT – Eastern Europe,** Wiener  
Neustadt

Tel: +43 (0)2622 23501 900  
parker.easteurope@parker.com

**AZ – Azerbaijan,** Baku

Tel: +994 50 2233 458  
parker.azerbaijan@parker.com

**BE/LU – Belgium,** Nivelles

Tel: +32 (0)67 280 900  
parker.belgium@parker.com

**BY – Belarus,** Minsk

Tel: +375 17 209 9399  
parker.belarus@parker.com

**CH – Switzerland,** Etoy

Tel: +41 (0)21 821 87 00  
parker.switzerland@parker.com

**CZ – Czech Republic,** Klecany

Tel: +420 284 083 111  
parker.czechrepublic@parker.com

**DE – Germany,** Kaarst

Tel: +49 (0)2131 4016 0  
parker.germany@parker.com

**DK – Denmark,** Ballerup

Tel: +45 43 56 04 00  
parker.denmark@parker.com

**ES – Spain,** Madrid

Tel: +34 902 330 001  
parker.spain@parker.com

**FI – Finland,** Vantaa

Tel: +358 (0)20 753 2500  
parker.finland@parker.com

**FR – France,** Contamine s/Arve

Tel: +33 (0)4 50 25 80 25  
parker.france@parker.com

**GR – Greece,** Athens

Tel: +30 210 933 6450  
parker.greece@parker.com

**HU – Hungary,** Budapest

Tel: +36 1 220 4155  
parker.hungary@parker.com

**IE – Ireland,** Dublin

Tel: +353 (0)1 466 6370  
parker.ireland@parker.com

**IT – Italy,** Corsico (MI)

Tel: +39 02 45 19 21  
parker.italy@parker.com

**KZ – Kazakhstan,** Almaty

Tel: +7 7272 505 800  
parker.easteurope@parker.com

**NL – The Netherlands,** Oldenzaal

Tel: +31 (0)541 585 000  
parker.nl@parker.com

**NO – Norway,** Asker

Tel: +47 66 75 34 00  
parker.norway@parker.com

**PL – Poland,** Warsaw

Tel: +48 (0)22 573 24 00  
parker.poland@parker.com

**PT – Portugal,** Leca da Palmeira

Tel: +351 22 999 7360  
parker.portugal@parker.com

**RO – Romania,** Bucharest

Tel: +40 21 252 1382  
parker.romania@parker.com

**RU – Russia,** Moscow

Tel: +7 495 645-2156  
parker.russia@parker.com

**SE – Sweden,** Spånga

Tel: +46 (0)8 59 79 50 00  
parker.sweden@parker.com

**SK – Slovakia,** Banská Bystrica

Tel: +421 484 162 252  
parker.slovakia@parker.com

**SL – Slovenia,** Novo Mesto

Tel: +386 7 337 6650  
parker.slovenia@parker.com

**TR – Turkey,** Istanbul

Tel: +90 216 4997081  
parker.turkey@parker.com

**UA – Ukraine,** Kiev

Tel: +380 44 494 2731  
parker.ukraine@parker.com

**UK – United Kingdom,** Warwick

Tel: +44 (0)1926 317 878  
parker.uk@parker.com

**ZA – South Africa,** Kempton Park

Tel: +27 (0)11 961 0700  
parker.southafrica@parker.com

## North America

**CA – Canada,** Milton, Ontario

Tel: +1 905 693 3000

**US – USA,** Cleveland

Tel: +1 216 896 3000

## Asia Pacific

**AU – Australia,** Castle Hill

Tel: +61 (0)2-9634 7777

**CN – China,** Shanghai

Tel: +86 21 2899 5000

**HK – Hong Kong**

Tel: +852 2428 8008

**IN – India,** Mumbai

Tel: +91 22 6513 7081-85

**JP – Japan,** Tokyo

Tel: +81 (0)3 6408 3901

**KR – South Korea,** Seoul

Tel: +82 2 559 0400

**MY – Malaysia,** Shah Alam

Tel: +60 3 7849 0800

**NZ – New Zealand,** Mt Wellington

Tel: +64 9 574 1744

**SG – Singapore**

Tel: +65 6887 6300

**TH – Thailand,** Bangkok

Tel: +662 186 7000-99

**TW – Taiwan,** Taipei

Tel: +886 2 2298 8987

## South America

**AR – Argentina,** Buenos Aires

Tel: +54 3327 44 4129

**BR – Brazil,** Sao Jose dos Campos

Tel: +55 800 727 5374

**CL – Chile,** Santiago

Tel: +56 2 623 1216

**MX – Mexico,** Apodaca

Tel: +52 81 8156 6000

### EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL,  
IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

### US Product Information Centre

Toll-free number: 1-800-27 27 537

[www.parker.com/hzd](http://www.parker.com/hzd)

