1. TECHNICAL SPECIFICATIONS

1.1 FILTER

The change-over Diesel PreCare is a modern system for diesel prefiltration which protects vehicle manufacturers and operators against breakdowns, downtimes and expensive service calls.

The change-over "Diesel PreCare" filters consist of a module with multiple filter housings. They are connected by a ball change-over valve with single-lever operation. The HYDAC solution is available in two versions:

- Manual water discharge (BestCost) - the conventional, operator-dependent solution
- Fully automatic discharge (Plug&Play (HighTech)) - the innovative solution for fully automatic dewatering, independent of the operator, even during suction-side operation.

1.2 FILTER ELEMENTS

HYDAC filter elements Dieselmicron® are validated and their quality is constantly monitored according to the following standards:

- ISO CD 16332
- ISO 19438

1.3 FILTER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>BestCost</th>
<th>HighTech</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure</td>
<td>&lt; 1 bar absolute</td>
<td>up to 1800 l/h</td>
</tr>
<tr>
<td>Flow rate</td>
<td>up to 1800 l/h</td>
<td>up to 1800 l/h</td>
</tr>
<tr>
<td>Mounting thread</td>
<td>M22x1.5; M27x1.5</td>
<td>G ¾ (others in request)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40 °C to +90 °C</td>
<td>-20 °C to +90 °C (extended temperature range on request)</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>24 V DC (optional 12 V)</td>
<td>up to approx. 300 W</td>
</tr>
<tr>
<td>Water separation efficiency</td>
<td>&gt;95% in accordance with ISO CD 16332</td>
<td></td>
</tr>
</tbody>
</table>

1.4 SPECIAL MODELS AND ACCESSORIES

- Water sensor (present as standard on HDPD "HighTech")
- Fuel pre-heater
- Clogging indicator (only HDPD "HighTech")
- With integrated hand pump or electric pump (only HDPD 600 BestCost and multiple modules)
- Others on request!

1.5 SPARE PARTS

See Original Spare Parts List

1.6 CERTIFICATES AND APPROVALS

On request

1.7 COMPATIBILITY WITH FUELS

Diesel, biodiesel (B0-B100), (non-conductive)
Others on request

1.8 MAINTENANCE INSTRUCTIONS

- Only for suction-side operation
- Filter housings must be earthed.
- When using electrical clogging indicators, the electrical power supply to the system must be switched off before removing the clogging indicator connector.
- Due to the likelihood of freezing, there must be no restriction in the drain line. This is to compensate for the expansion.

Symbol for hydraulic systems

- Return of surplus fuel to lubricate / cool the CR pump
- Charge pump
- Common Rail
- Automatic water discharge
- Fuel tank
- H2O
- H2O
- L1
- L1
- Pre-filter
- Main filter

- E 7.135.1/11.16

HYDAC INTERNATIONAL
## 2. MODEL CODE (also order example)

### 2.1 COMPLETE FILTER "BESTCOST" (MANUAL DESIGN)

<table>
<thead>
<tr>
<th>Filter type</th>
<th>HDPD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter material</td>
<td>KF1 Dieselmicron®</td>
</tr>
<tr>
<td>Size</td>
<td>HDPD: 340 (=left side 1x HDP 340, right side 1x HDP 340)  600 (=left side 1x HDP 600, right side 1x HDP 600)  1200 (=left side 2x HDP 600, right side 2x HDP 600)  1800 (=left side 3x HDP 600, right side 3x HDP 600)</td>
</tr>
<tr>
<td>Evolution stage</td>
<td>BC1</td>
</tr>
<tr>
<td>Filtration rating in µm</td>
<td>10 µm standard, fully synthetic  30 µm fully synthetic  7 µm high performance mixed media (glass/synthetic)</td>
</tr>
<tr>
<td>Type of clogging indicator</td>
<td>W no connection for a clogging indicator</td>
</tr>
<tr>
<td>Type code</td>
<td>1</td>
</tr>
<tr>
<td>Modification number</td>
<td>X the latest version is always supplied</td>
</tr>
<tr>
<td>Supplementary details</td>
<td>ASx with integrated water sensor  Hx with integrated fuel pre-heater  PHx with integrated hand pump (only HDPD 600 BC1)  PEx with integrated electric pump (only HDPD 600 BC1)  Kxxx customer-specific</td>
</tr>
</tbody>
</table>

### 2.2 SPARE ELEMENT "BESTCOST"

| Size | 0340, 0600 |
| Evolution stage | BC1 |
| Filtration rating in µm | 010 standard, fully synthetic  030 fully synthetic  007 high performance mixed media (glass/synthetic) |
| Filter material | KF1 Dieselmicron® |
| Supplementary details | Kxxx (for descriptions, see point 2.1) |
2.3 COMPLETE FILTER "HIGHTECH" (FULLY AUTOMATIC DESIGN)

Filter type
HDPD

Filter material
KF1 "Dieselmicron®"

Size
HDPD: 600 (left side 1x HDP 600, right side 1x HDP 600)
600 (left side 1x HDP 600, right side 1x HDP 600)
1200 (left side 2x HDP 600, right side 2x HDP 600)
1800 (left side 3x HDP 600, right side 3x HDP 600)

Evolution stage
HT1

Filtration rating in µm
10 µm standard, fully synthetic
30 µm fully synthetic
7 µm high performance mixed media (glass/synthetic)

Type of clogging indicator
A Steel screw plug in indicator port
UED Vacuum gauge

Type code
1

Modification number
X the latest version is always supplied

Supplementary details
ASx standard: with integrated water sensor
Hx with integrated fuel pre-heater
Kxxx customer-specific

2.4 SPARE ELEMENT "HIGHTECH"

Size
0600

Evolution stage
HT1

Filtration rating in µm
010 standard, fully synthetic
030 fully synthetic
007 high performance mixed media (glass/synthetic)

Filter material
KF1 "Dieselmicron®"

Supplementary details
Kxxx (for descriptions, see point 2.3)

2.5 REPLACEMENT CLOGGING INDICATOR

Type
VMF Thread G 1/8

Pressure setting
1 standard -1 to 0 bar (others on request)

Type of clogging indicator
(see Point 2.3)

Modification number
X the latest version is always supplied

Other standard models on request
3. SPECIAL MODELS
Further variations of our "standard" change-over filters HDPD are possible:

3.1. DIFFERENT NUMBER OF FILTERS ON EACH SIDE

Order example: HDPD KF1 600/1200 BC1 10 W 1.0 /-PH1

3.2. DIFFERENT EVOLUTION STAGES ON EACH SIDE

Order example: HDPD KF1 600/340 HT1/BC1 10 W 1.0 /-AS1

Please contact HYDAC Head Office or your local area office for further advice.
4. DIMENSIONS

4.1. MANUAL DESIGN
HDPD 340 “BestCost”

Other sizes

<table>
<thead>
<tr>
<th>HDPD</th>
<th>340 BC</th>
<th>600 BC</th>
<th>1200 BC</th>
<th>1800 BC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight incl. element [kg]</td>
<td>approx. 9.0</td>
<td>approx. 11.0</td>
<td>approx. 13.0</td>
<td>approx. 30.0</td>
</tr>
</tbody>
</table>

HDPD KF1 600 BC1 ...

HDPD KF1 1200 BC1 ...

HDPD KF1 1800 BC1 ...
NOTE

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.