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Find the *Thermo / Barnant HD PH / P* at our website: ***Click HERE***

## HEAVY-DUTY PUMPS



HD-MA 80-1

- Pump housings are aluminium protected by double coats of epoxy paint, with option for Teflon coating (green in colour).
- Internal transformer reduces incoming electrical supply to 48V, 'isolating' and protecting against external voltage fluctuations.
- IP65 enclosure protection.
- Approximate weights of 5.4 to 7.6 kg.
- 162-167 mm (depth) x 236 mm (width) x 194 mm (height).
- Manufactured in accordance with CE regulations.

TYPES

| | |
|---|---|
| **HD-MA** | ■ Flow rate adjusted manually by twin-scale stroke rate knob (0-20% / 0-100%). |
| **HD-MA/T** | ■ Flow rate adjusted manually by stroke rate knob, or<br>■ Flow rate controlled by contact water meter, which activates pump's built-in timer. |
| **HD-VF** | ■ Flow rate adjusted manually by stroke rate knob, or<br>■ Flow rate controlled by a contact water meter (X water meter pulses = Y pump pulses). |
| **HD-PM** | ■ Flow rate adjusted manually by twin-scale stroke rate knob (0-20% / 0-100%), or<br>■ Flow rate controlled by a 0.1, 1, 2 or 4 l/pulse contact water meter<br>(X water meter pulses = pump activation to achieve a specified system p.p.m.) |
| **HD-PH** | ■ Pump and pH controller (0-14 pH) built into one compact unit.<br>■ Pump activated ONLY by the incoming pH signal, but stroke rate can be user-set. |
| **HD-RX** | ■ Pump and ORP controller (± 1400 mV) built into one compact unit.<br>■ Pump activated ONLY by the incoming ORP signal, but stroke rate can be user-set. |
| **HD-PH/P** | ■ Pump and pH controller (0-14 pH) built into one compact unit.<br>■ Pump activated ONLY by the incoming pH signal.<br>■ Pump flow rate is proportional to difference between system pH and set point. |

MODELS

| Model | l/hr | bar | Type | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | HD-MA | HD-MA/T | HD-VF | HD-PM | HD-PH | HD-RX | HD-PH/P |
| 0.25-6 | 0.25 | 6 | ✓ | | | | | | |
| 1-10 | 1 | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2-10 | 2 | 10 | ✓ | ✓ | | | | | |
| 2-20 | 2 | 20 | ✓ | ✓ | ✓ | | | | |
| 4-20 | 4 | 20 | ✓ | | | | | | |
| 5-10 | 5 | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10-5 | 10 | 5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10-10 | 10 | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15-5 | 15 | 5 | ✓ | | | | | | |
| 20-3 | 20 | 3 | | | | | ✓ | ✓ | |
| 20-5 | 20 | 5 | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| 30-4 | 30 | 4 | ✓ | ✓ | | | | | |
| 50-0.3 | 50 | 0.3 | ✓ | ✓ | ✓ | | | | |
| 50-2 | 50 | 2 | ✓ | ✓ | | | | | |
| 80-1 | 80 | 1 | ✓ | ✓ | | | | | |

**(Full model numbers are designated in the form of "TYPE MODEL" – eg. "HD-MA 5-10")**

FEATURES

| | STANDARD | OPTIONS |
|---|---|---|
| Electricals | 230V/50-60Hz/1ph | 110V, 240 V and others available. |
| Body/casing (non-wetted) | Aluminium with double coats of epoxy paint. | Teflon-coated casing (green). |
| Pumphead assembly | PVC (30 l/hr & above, or 20 bar models),<br>PP (all others). | PVC, full PTFE, SS316. |
| Check valves | Ball type (50 l/hr & above),<br>Viton lip type (all others). | Lip types: EPDM, NBR, Silicon.<br>Ball types: SS316, glass Pyrex. |
| Diaphragm | Entirely PTFE | - |
| Seals | Viton | EPDM, NBR, Silicon, PTFE. |
| Suction / discharge tube (2m) | PVC / PE | - |
| Filter (footvalve) & Injection valve | 1/2" BSPm PVC (30 l/hr & above),<br>3/8" BSPm PP (all others). | - |
| 4-20 mA output from pump | HD-PH & HD-RX models only. | - |
| pH/ORP electrodes | HD-PH, HD-RX & HD-PH-P models only. | - |
| Relay outputs | HD-PH/P models only. | - |
| Auto air bleed | - | PVC pumpheads only. |
| Stroke length adjustment | - | Yes. |
| Tank low level sensor | Yes (probe not included). | Order probe separately. |

Etatron D.S. S.r.l. (Headquarters)
Via Cantania 4
00040 Pavona di Albano Laziale
Rome, Italy
Tel. +39-06-9342713
Fax. +39-06-9343924
www.etatronds.com

Etatron D.S. Asia -Pacific Pte Ltd
No. 7, Kaki Bukit Road 2,
#03-01 Great Pacific Warehouse,
Singapore 417840
Tel. 65-7437959
Fax. 65-7430397

Etatron (U.K.) Branch Office
31 Main Street, Anwick Sleaford
Lincolnshire, NG34 9SJ England
Tel. 01526-834580
Fax. 01526-834488

Etatron D.S. (North Amercia)
#203 17665-66A Ave, Surrey, BC
Canada V3S 2A7
Tel. 604-576-8539
Fax. 604-576-0924
www.etatron.com

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