# CO Series

*Threaded centrifugal pumps with open impeller.*
*These pumps combine the advantages of an open impeller with those of AISI 316 stainless steel which is particularly suited for pumping moderately aggressive liquids containing suspended solids.*

## SPECIFICATIONS

**Delivery**: up to 54 m³/h
**Head**: up to 24 m
**Power supply**: three-phase and single-phase 50 and 60 Hz
**Power**: 0.37 kW to 3 kW
**Maximum operating pressure**: 8 bar
**Temperature of pumped liquid**: -10°C to +120°C
**Insulation class**: F
**Protection**: IP55
**Open impeller pumps solids up to**:
CO350 - 11 mm
CO500 - 20 mm

## APPLICATIONS

- Pumping cooling liquid to machine tools
- Pressure boosting
- Industrial dishwashers
- Industrial washing equipment
- General industry
- Water treatment

## MATERIALS

**Pump body**:
Stainless steel
**Impeller**:
Stainless steel
**Seal housing**:
Stainless steel
**Mechanical seal**:
Ceramic/Carbon/FPM
**Fill and drain plugs**:
Stainless steel
**Elastomers**: FPM

For a complete list of technical information, consult **www.lowara.com**

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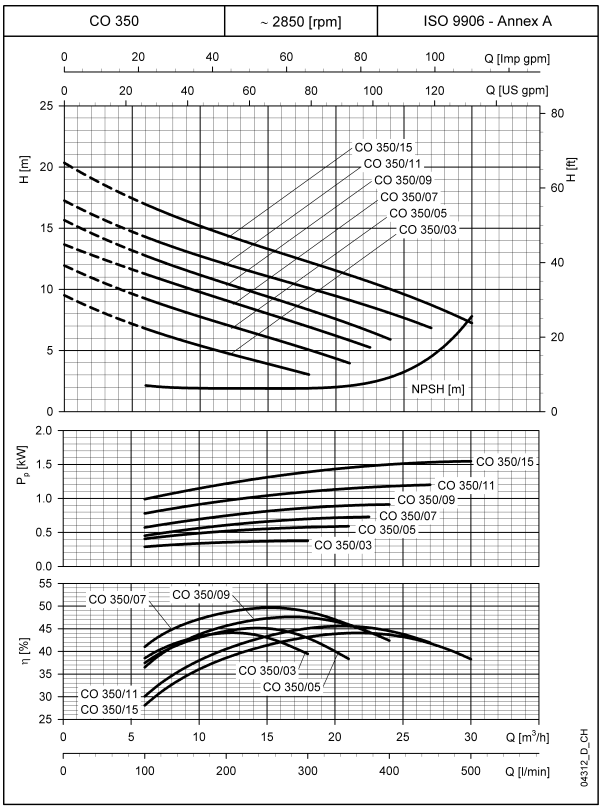
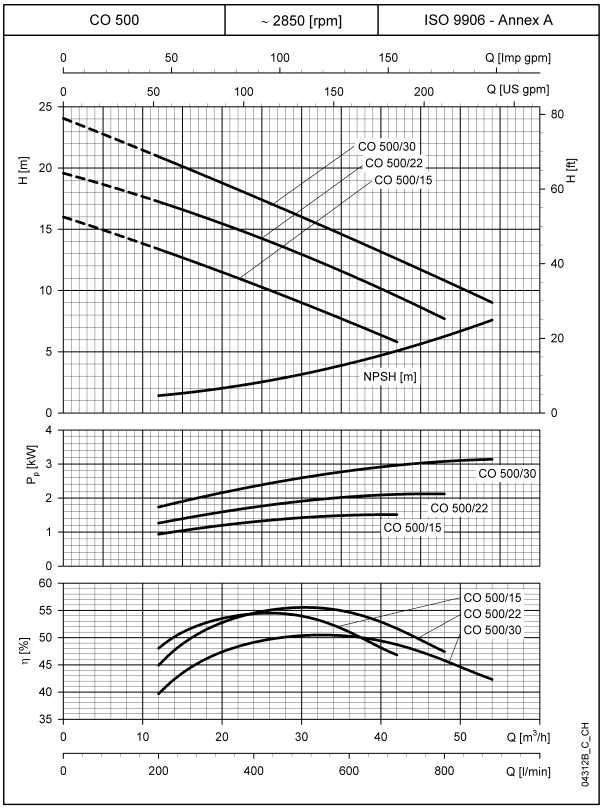
# CO SERIES
# OPERATING CHARACTERISTICS AT 50 Hz




These performances are valid for liquids with density $\rho = 1.0$ kg/dm$^3$ and kinematic viscosity $\nu = 1$ mm$^2$/s.

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# CO SERIES
## HYDRAULIC PERFORMANCE TABLE

| PUMP TYPE | RATED POWER | | Q = DELIVERY | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | l/min 0 | 100 | 120 | 160 | 200 | 240 | 280 | 300 | 350 | 375 | 400 | 450 | 500 | 600 | 650 | 700 | 800 | 900 |
| | | | $m^3/h$ 0 | 6 | 7,2 | 9,6 | 12 | 14,4 | 16,8 | 18 | 21 | 22,5 | 24 | 27 | 30 | 36 | 39 | 42 | 48 | 54 |
| | kW | HP | H = TOTAL HEAD IN COLUMN OF WATER (METRES) | | | | | | | | | | | | | | | | | |
| CO(M) 350/03 | 0,37 | 0,5 | 9,5 | 6,8 | 6,3 | 5,5 | 4,8 | 4,1 | 3,4 | 3,0 | | | | | | | | | | |
| CO(M) 350/05 | 0,55 | 0,75 | 12,0 | 9,2 | 8,8 | 7,9 | 7,1 | 6,3 | 5,5 | 5,1 | 4,0 | | | | | | | | | |
| CO(M) 350/07 | 0,75 | 1 | 13,7 | 11,2 | 10,8 | 9,9 | 9,1 | 8,2 | 7,4 | 6,9 | 5,8 | 5,3 | | | | | | | | |
| CO(M) 350/09 | 0,9 | 1,2 | 15,7 | 12,7 | 12,2 | 11,3 | 10,5 | 9,6 | 8,8 | 8,3 | 7,2 | 6,6 | 5,9 | | | | | | | |
| CO(M) 350/11 | 1,1 | 1,5 | 17,3 | 14,3 | 13,8 | 12,9 | 12,0 | 11,2 | 10,5 | 10,1 | 9,1 | 8,6 | 8,0 | 6,8 | | | | | | |
| CO(M) 350/15 | 1,5 | 2 | 20,3 | 16,9 | 16,4 | 15,3 | 14,4 | 13,5 | 12,7 | 12,2 | 11,2 | 10,6 | 10,0 | 8,7 | 7,2 | | | | | |
| CO(M) 500/15 | 1,5 | 2 | 16,0 | | | | 13,4 | 12,8 | 12,3 | 12,0 | 11,3 | 10,9 | 10,5 | 9,8 | 9,0 | 7,4 | 6,6 | 5,8 | | |
| CO(M) 500/22 | 2,2 | 3 | 19,6 | | | | 17,3 | 16,7 | 16,2 | 15,9 | 15,2 | 14,9 | 14,5 | 13,7 | 13,0 | 11,3 | 10,4 | 9,6 | 7,7 | |
| CO 500/30 | 3 | 4 | 24,1 | | | | 20,9 | 20,3 | 19,7 | 19,3 | 18,5 | 18,1 | 17,7 | 16,9 | 16,0 | 14,3 | 13,5 | 12,6 | 10,8 | 9,0 |

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## ELECTRICAL DATA

| ELECTRIC PUMP TYPE SINGLE-PHASE | ABSORBED POWER* kW | ABSORBED CURRENT* 220-240 V A | CAPACITOR µF / 450 V |
|---|---|---|---|
| COM350/03 | 0,63 | 2,82 | 14 |
| COM350/05 | 0,88 | 4,25 | 16 |
| COM350/07 | 1,02 | 4,67 | 20 |
| COM350/09 | 1,21 | 5,46 | 25 |
| COM350/11 | 1,75 | 7,85 | 30 |
| COM350/15 | 2,04 | 9,21 | 40 |
| COM500/15 | 2,02 | 9,12 | 40 |
| COM500/22 | 2,72 | 12,7 | 70 |
| - | - | - | - |

| ELECTRIC PUMP TYPE THREE-PHASE | ABSORBED POWER* kW | ABSORBED CURRENT* 220-240 V A | ABSORBED CURRENT* 380-415 V A |
|---|---|---|---|
| C0 350/03 | 0,64 | 2,53 | 1,46 |
| CO 350/05 | 0,79 | 2,7 | 1,56 |
| C0 350/07 | 1 | 3,57 | 2,06 |
| CO 350/09 | 1,13 | 4,21 | 2,43 |
| C0 350/11 | 1,69 | 5,2 | 3 |
| CO 350/15 | 1,98 | 6,3 | 3,64 |
| C0 500/15 | 1,96 | 6,27 | 3,62 |
| CO 500/22 | 2,73 | 9,06 | 5,23 |
| C0 500/30 | 3,58 | 11,0 | 6,38 |

* Maximum values within the operating range.

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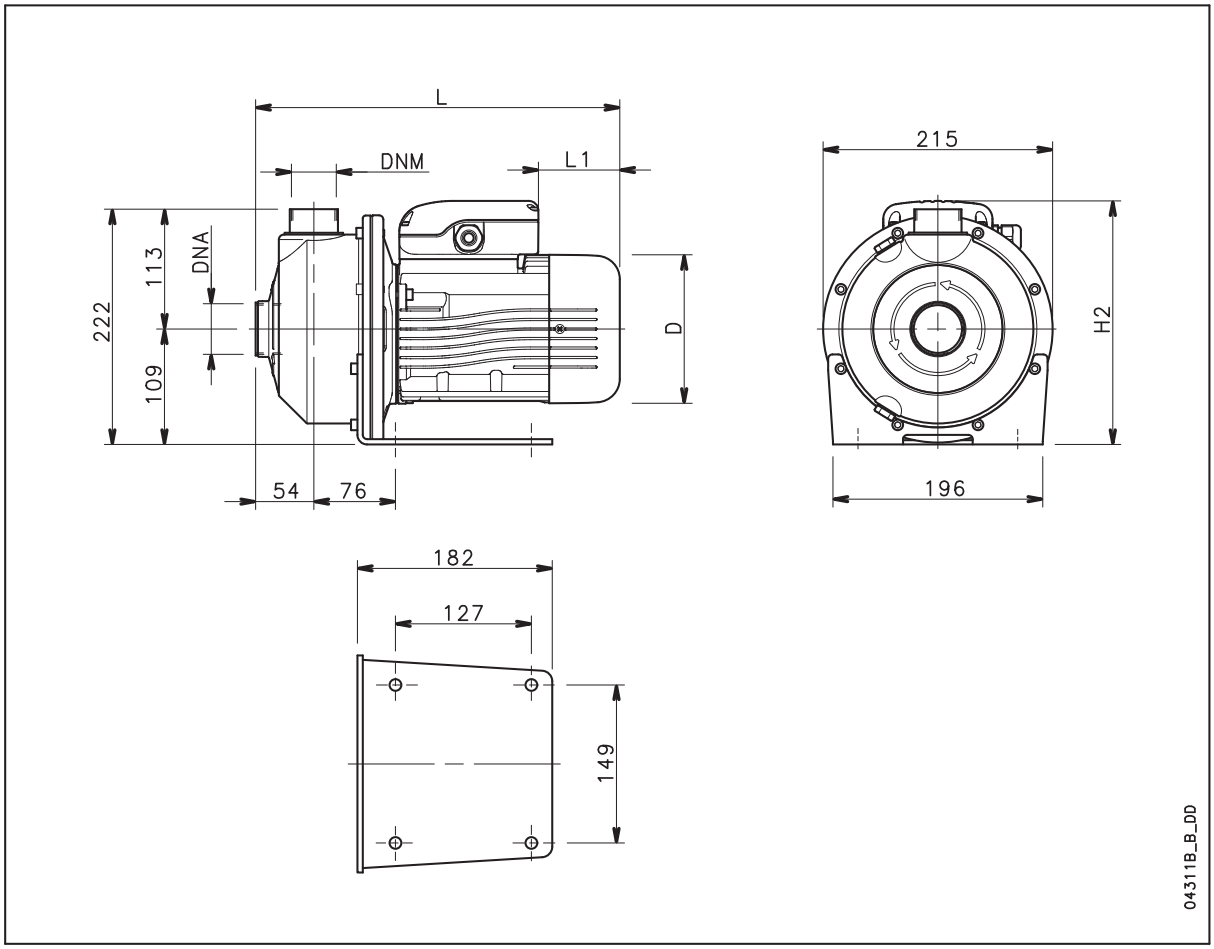
# CO SERIES - DIMENSIONS AND WEIGHTS




| PUMP TYPE | DIMENSIONS (mm) | | | | DNA | DNM | WEIGHT |
|---|---|---|---|---|---|---|---|
| | D | H2 | L | L1 | | | kg |
| COM 350/03 | 120 | 220 | 325 | 62 | Rp 1½ | Rp 1¼ | 10 |
| COM 350/05 | 140 | 230 | 339 | 76 | Rp 1½ | Rp 1¼ | 11,9 |
| COM 350/07 | 140 | 230 | 339 | 76 | Rp 1½ | Rp 1¼ | 12,6 |
| COM 350/09 | 140 | 239 | 339 | 31 | Rp 1½ | Rp 1¼ | 13,2 |
| COM 350/11 | 156 | 246 | 385 | 69 | Rp 1½ | Rp 1¼ | 14,5 |
| COM 350/15 | 156 | 246 | 385 | 69 | Rp 1½ | Rp 1¼ | 16,2 |
| COM 500/15 | 156 | 246 | 385 | 69 | Rp 2 | Rp 1½ | 16,2 |
| COM 500/22 | 174 | 243 | 429 | 84 | Rp 2 | Rp 1½ | 20 |
| CO 350/03 | 120 | 220 | 325 | 62 | Rp 1½ | Rp 1¼ | 10 |
| CO 350/05 | 140 | 230 | 339 | 76 | Rp 1½ | Rp 1¼ | 11,9 |
| CO 350/07 | 140 | 230 | 339 | 76 | Rp 1½ | Rp 1¼ | 12,6 |
| CO 350/09 | 140 | 230 | 339 | 76 | Rp 1½ | Rp 1¼ | 12,2 |
| CO 350/11 | 156 | 238 | 385 | 114 | Rp 1½ | Rp 1¼ | 14,5 |
| CO 350/15 | 156 | 238 | 385 | 114 | Rp 1½ | Rp 1¼ | 16,2 |
| CO 500/15 | 156 | 238 | 385 | 114 | Rp 2 | Rp 1½ | 16,2 |
| CO 500/22 | 156 | 238 | 385 | 114 | Rp 2 | Rp 1½ | 17,8 |
| CO 500/30 | 174 | 243 | 429 | 172 | Rp 2 | Rp 1½ | 25 |

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