

DUCA DOMESTIC PORTFOLIO

DUCA®

# COSMO XXL



# TECHNICAL DATA SHEET

## COSMO XXL

### Application

Whether for hot or cold water applications up to 95°C, the COSMO XXL is ideally suited for variable flow heating systems, dual-supply underfloor heating loops, air conditioning circuits, industrial circulation networks or domestic hot water systems. Built for durability, stability, and seamless integration, COSMO XXL stands as the intelligent core of modern water circulation systems.



### Main features

- 'A' Nominal energy efficiency lowest power consumption
- Permanent magnet aluminium die-cast housing motor, intelligent frequency control
- Compact design with control box integrated in the pump head
- Proportional pressure, constant pressure, constant speed mode
- Low-noise operation for quiet performance
- Wi-Fi connectivity for remote monitoring and control
- Mobile application compatibility for easy setup and operation
- Temperature control mode

### Working condition

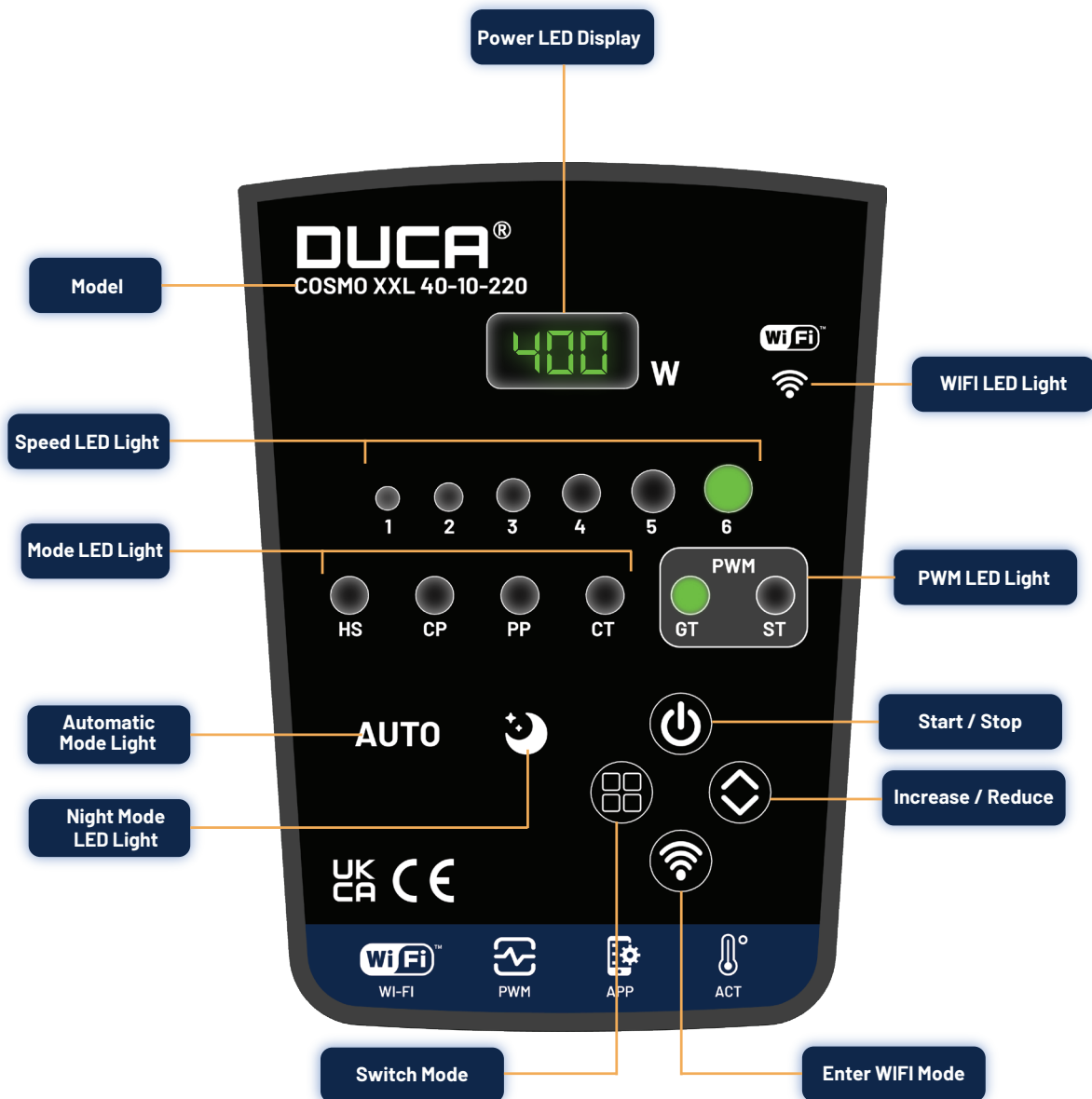
- Maximum Ambient Temperature: +40 °C
- Protection Level: IP44
- Mains Connection: 220V or 380V
- Insulation Class: H
- Pumped Liquid Properties:
  - Clean, Solids and Mineral Oil Free,
  - Non-toxic, Chemically Neutral,
  - Close to Water Features

EEl ≤ 0.21

iPWM



## User Interface



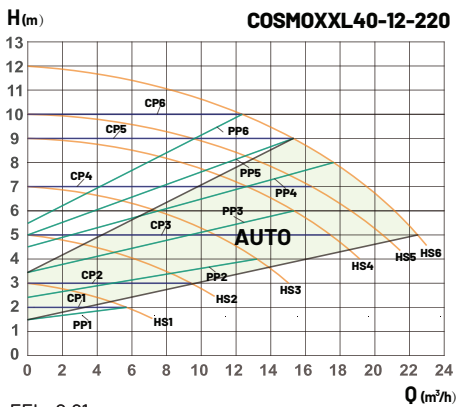
## COSMO XXL 40-12-220



**Max. Flow Rate**  
22 m<sup>3</sup>/h

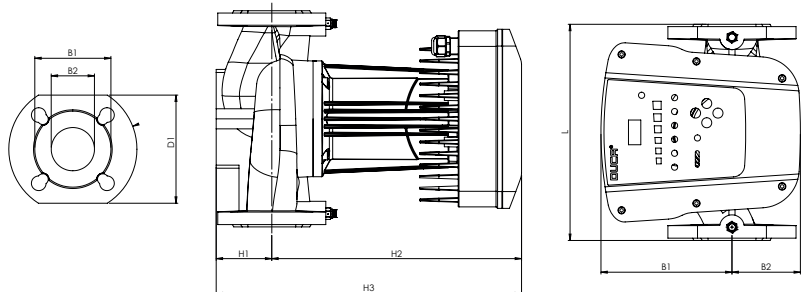
**Max. Head**  
12 m

### Performance Curve



**iPWM** **ErP** **READY** **CE** **RoHS**  
Compliant

### Dimensions



**B1** 83 mm  
**B2** 40 mm  
**D1** 126 mm

**H1** 65 mm  
**H2** 321,5 mm  
**H3** 386,5 mm

**L** 220 mm  
**B1** 170 mm  
**B2** 88,5 mm

### Model Information

| Model     | Min/Max Temp (°C) | L (mm) | DN   | P1 Max | Voltage (V) | Flange        |
|-----------|-------------------|--------|------|--------|-------------|---------------|
| 40-12-220 | -2 to +110        | 220    | DN40 | 600W   | 220         | DN 40 to G1½" |

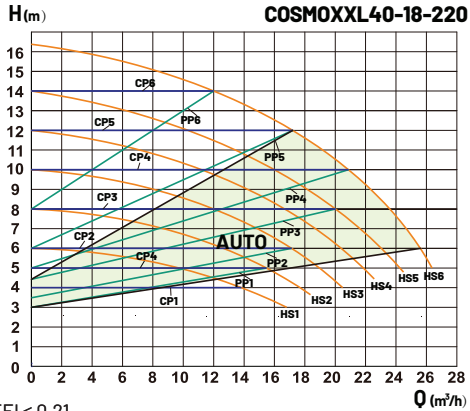
## COSMO XXL 40-18-220



**Max. Flow Rate**  
24 m<sup>3</sup>/h

**Max. Head**  
18 m

### Performance Curve



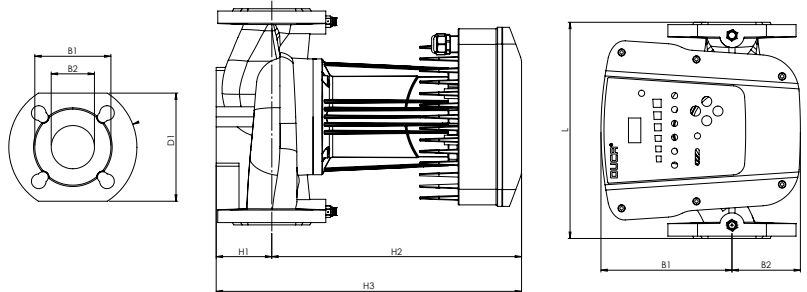
EEI ≤ 0.21

iPWM

ErP  
READY

CE RoHS  
Compliant

### Dimensions



**B1** 83 mm

**B2** 40 mm

**D1** 126 mm

**H1** 65 mm

**H2** 321,5 mm

**H3** 386,5 mm

**L** 220 mm

**B1** 170 mm

**B2** 88,5 mm

### Model Information

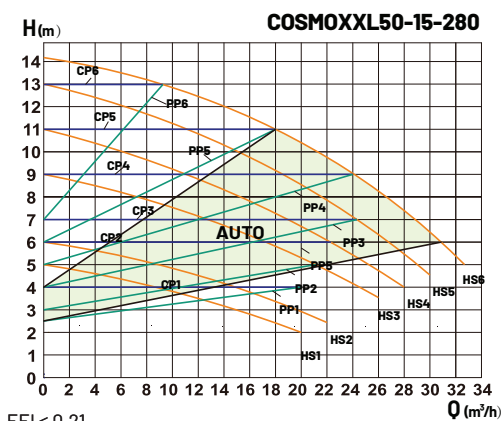
| Model     | Min/Max Temp (°C) | L (mm) | DN   | P1 Max | Voltage (V) | Flange        |
|-----------|-------------------|--------|------|--------|-------------|---------------|
| 40-18-220 | -2 to +110        | 220    | DN40 | 900W   | 220         | DN 40 to G1½" |

## COSMO XXL 50-15-280

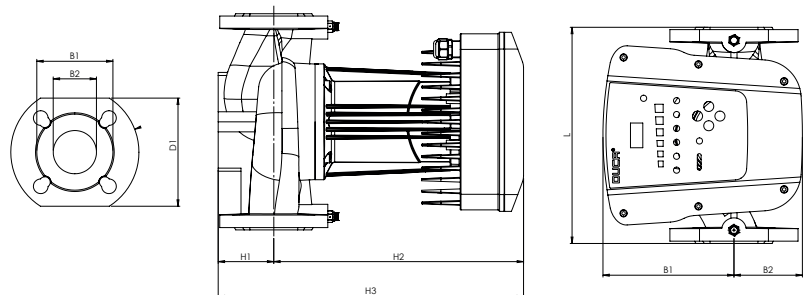


**Max. Flow Rate**    **Max. Head**  
32 m<sup>3</sup>/h            15 m

### Performance Curve



### Dimensions



|                  |                    |                   |
|------------------|--------------------|-------------------|
| <b>B1</b> 95 mm  | <b>H1</b> 72 mm    | <b>L</b> 280 mm   |
| <b>B2</b> 50 mm  | <b>H2</b> 323,5 mm | <b>B1</b> 170 mm  |
| <b>D1</b> 140 mm | <b>H3</b> 395,5 mm | <b>B2</b> 88,5 mm |

### Model Information

| Model     | Min/Max Temp (°C) | L (mm) | DN   | P1 Max | Voltage (V) | Flange       |
|-----------|-------------------|--------|------|--------|-------------|--------------|
| 50-15-280 | -2 to +110        | 280    | DN50 | 1000W  | 220         | DN 50 to G2" |

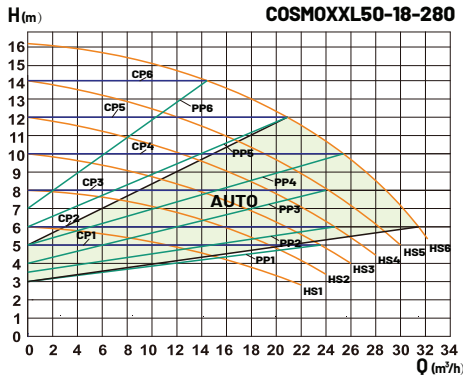
## COSMO XXL 50-18-280



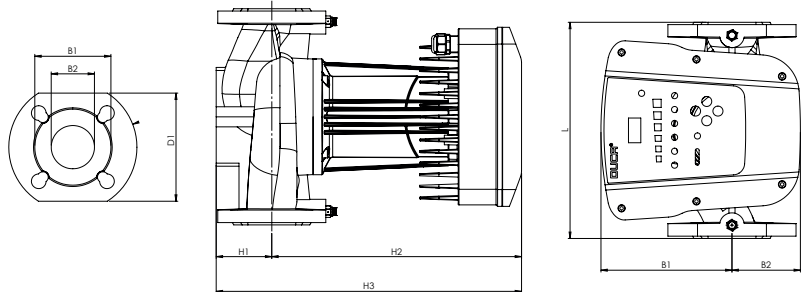
**Max. Flow Rate**  
32 m<sup>3</sup>/h

**Max. Head**  
18 m

### Performance Curve



### Dimensions



EEI ≤ 0.21

iPWM

ErP  
READY

CE RoHS  
Compliant

**B1** 95 mm  
**B2** 50 mm  
**D1** 140 mm

**H1** 72 mm  
**H2** 323,5 mm  
**H3** 395,5 mm

**L** 280 mm  
**B1** 170 mm  
**B2** 88,5 mm

### Model Information

| Model     | Min/Max Temp (°C) | L (mm) | DN   | P1 Max | Voltage (V) | Flange      |
|-----------|-------------------|--------|------|--------|-------------|-------------|
| 50-18-280 | -2 to +110        | 280    | DN50 | 1000W  | 220         | DN50 to G2" |

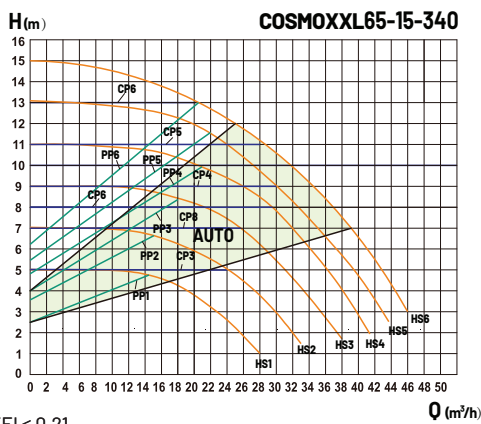
## COSMO XXL 65-15-340



**Max. Flow Rate**  
48 m<sup>3</sup>/h

**Max. Head**  
15 m

### Performance Curve



EEL ≤ 0.21

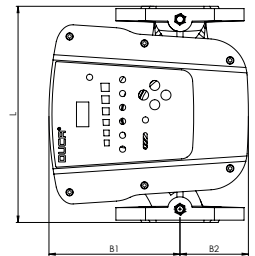
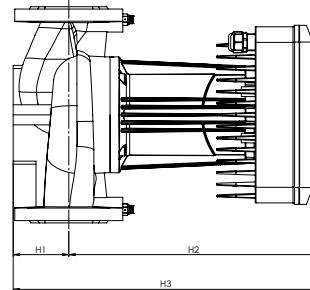
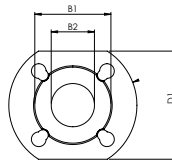
iPWM

ErP  
READY

CE RoHS  
Compliant

Q (m<sup>3</sup>/h)

### Dimensions



**B1** 156 mm  
**B2** 65 mm  
**D1** 140 mm

**H1** 80 mm  
**H2** 330 mm  
**H3** 410 mm

**L** 340 mm  
**B1** 170 mm  
**B2** 92 mm

### Model Information

| Model     | Min/Max Temp (°C) | L (mm) | DN   | P1 Max | Voltage (V) | Flange       |
|-----------|-------------------|--------|------|--------|-------------|--------------|
| 50-18-280 | -2 to +110        | 340    | DN65 | 1300W  | 220         | DN65 to G2½" |