

# NCD3 Three speeds circulating twin pumps with threaded ports



## Construction

Pump casing with suction and delivery connections with the same diameter and on the same axis (in-line).  
Brass or cast iron unions on request.

Materials	NCD3 ..40	NCD3 ...70-80-120
Pump casing	Cast iron	Cast iron
Impeller	Composite	Composite
Shaft	Stainless steel	Ceramic

## Applications

For clean liquids, without abrasives, which are non-aggressive for the pump materials.  
Civil and industrial heaty systems.

## Operating conditions

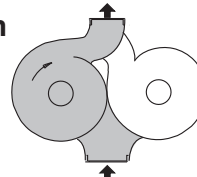
Liquid temperature from +5 °C to +110 °C (from -10 °C to +110 °C for NC3 ..-70 and NC3 ..-80).  
Ambient temperature up to 40 °C.  
Sound pressure ≤ 43 dB (A).  
Maximum glycol quantity: 50% (Mixture with more than 20% glycol content require rechecking of the pumping data).  
Maximum permissible working pressure 10 bar.

type	Minimum suction pressure: bar		
	Temperature		
	50 °C	80 °C	110 °C
NCD3 ..-40	0,05	0,4	1,1
NCD3 ..-70	0,05	0,4	1,1
NCD3 ..-80,120	0,05	0,4	1,2

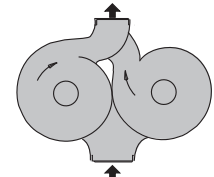
## Motor

2-pole induction motor, 50 Hz.  
Three adjustable speeds.  
**NCD3**: single-phase 230 V.  
Insulation class H.  
Protection IP 44.

## Operation

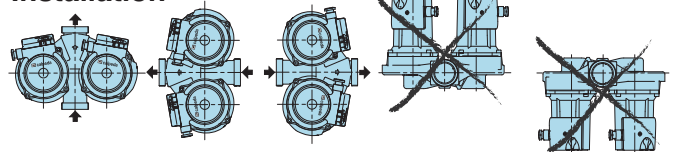


**Single operation**  
Operation of a single pump choosed by the customer, with the second pump on stand-by

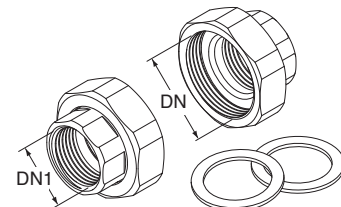


**Double operation**  
Operation in parallel of the two pumps

## Installation



## Unions



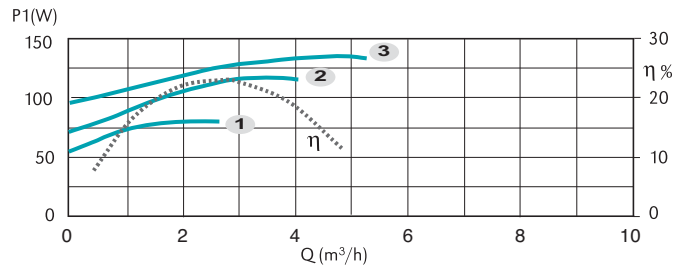
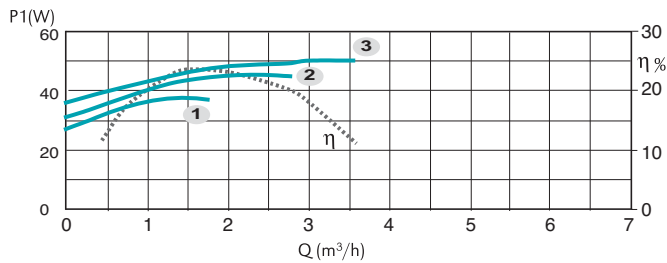
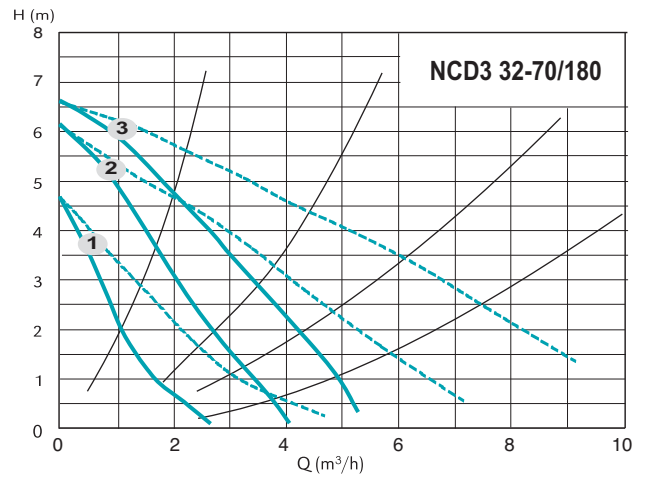
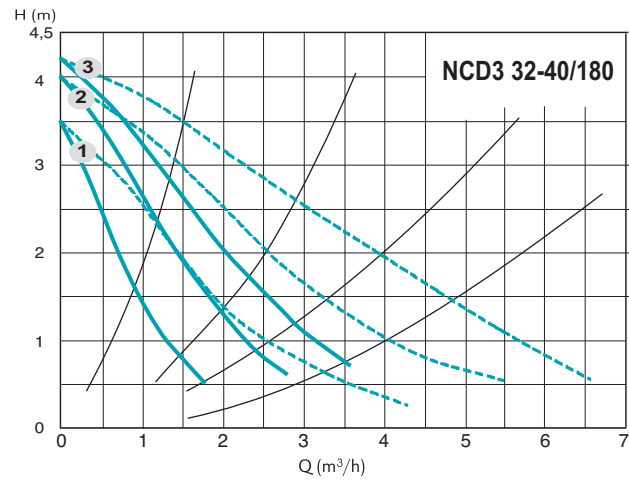
TYPE	DN	DN1
KIT G 2 - G 1 1/4 (NC3D 32..)	G 2	G 1 1/4

## Designation

NCD3 32 - 70 / 180

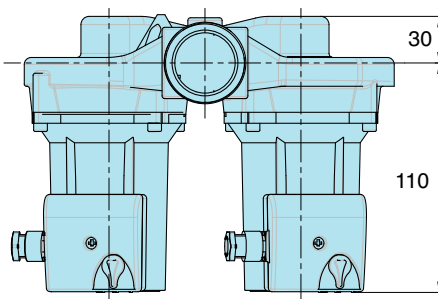
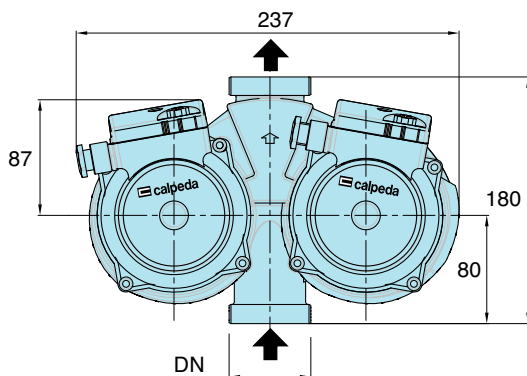
Series \_\_\_\_\_  
DN ports in mm \_\_\_\_\_  
Max. head in dm \_\_\_\_\_  
connection size mm \_\_\_\_\_

## Characteristic curves, dimensions and weights



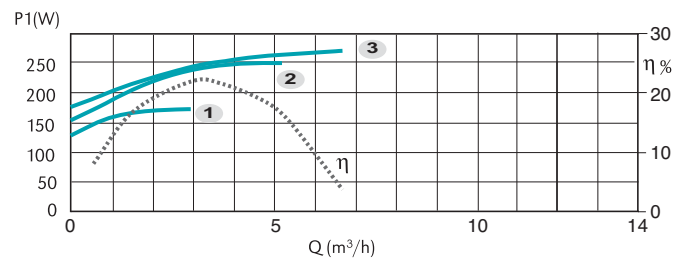
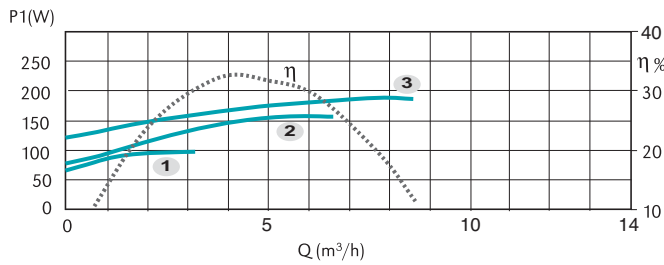
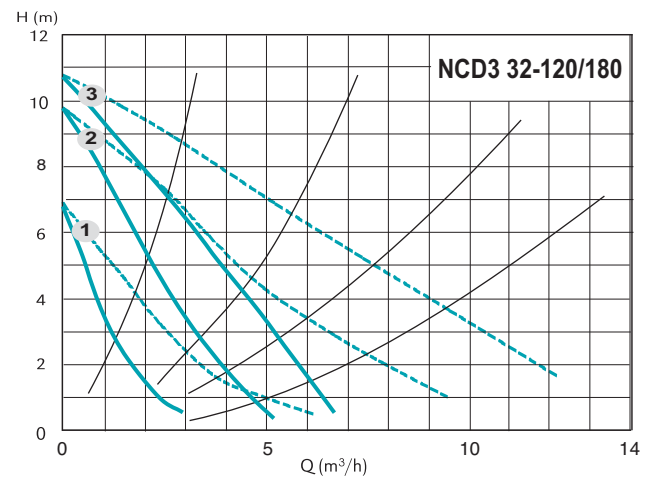
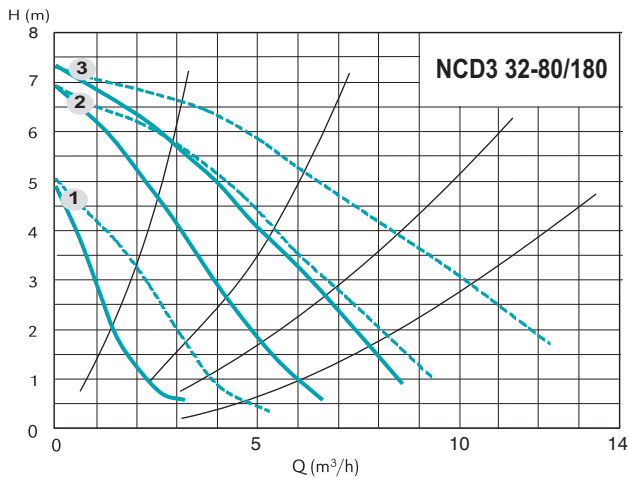
——— Single operation  
- - - - Operation in parallel

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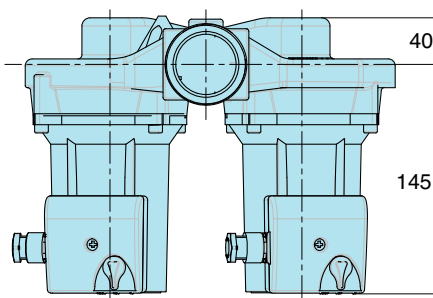
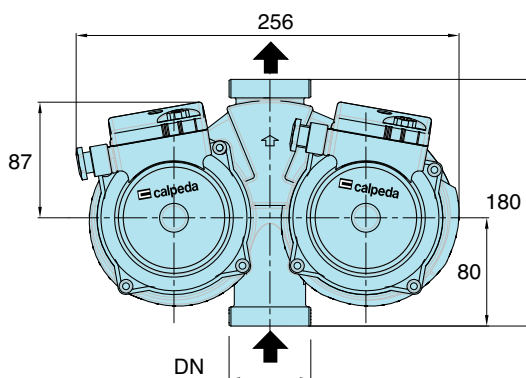
TYPE	DN	Pos.	P1 (W)	1x 230 V [A]	[kg]
NCD3 32-40/180	G 2	3	53	0,23	5,6
		2	47	0,21	
		1	38	0,17	
NCD3 32-70/180	G 2	3	136	0,61	6
		2	116	0,54	
		1	77	0,37	

## Characteristic curves, dimensions and weights



—— Single operation  
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TYPE	DN	Pos.	P1 (W)	1x 230 V [A]	[kg]
NCD3 32-80/180	G 2	3	206	0,91	9,6
		2	185	0,88	
		1	120	0,6	
NCD3 32-120/180	G 2	3	265	1,15	10,3
		2	251	1,14	
		1	176	0,85	