



ETHERMA

4-SPEED CIRCULATOR PUMPS



4-speed circulator pumps with motor mounted directly into the pump body. The switch allows to obtain different performance curves guaranteeing greater flexibility and harmoniously satisfying the system's hydraulic requisites.

APPLICATIONS

- Circulation of hot and cold water in general
- Air conditioning plants
- Centralised heating plants
- Domestic/industrial heating plants
- Industrial plants in general

TECHNICAL DETAILS

- Silent
- Easy installation
- Available in single and twin version
- Large range available
- Available with bronze body (ETHERMA B)

TECHNICAL DATA

- Flow rate up to 120 m³/h
- Head up to 16 m
- Maximum functioning pressure: PN 10
- Temperature of the liquid: from -15°C to +120°C
- Maximum glycol content: 50%
- For the distribution of domestic hot water or similar applications, the temperature of the water must not exceed 60°C and the hardness of the water must be lower than 12 dH
- 230V, 50Hz single phase motor
400V +6% -10%, 50 Hz three phase
- Class of insulation F
- Protection rating IP42 (3 speed), IP44 (4 speed)
- Flanges:
 - DN 40, 50, 65, PN 6/10 double hole (DIN 2533)
 - DN 80, 100, 125, PN 16 (DIN 2533)
- Available with bronze body (yellow)
- Available with 2 or 4 poles

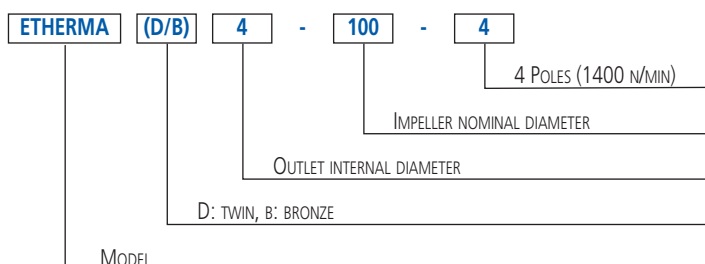
MATERIALS

- Cast iron or bronze pump body
- Shaft and cap in stainless steel
- Impeller in cast iron, technopolymer or bronze
- O-Rings in EPDM

ACCESSORIES (on request)

- Galvanised counter-flanges kit
- Blind flange for ETHERMA D

IDENTIFICATION CODE



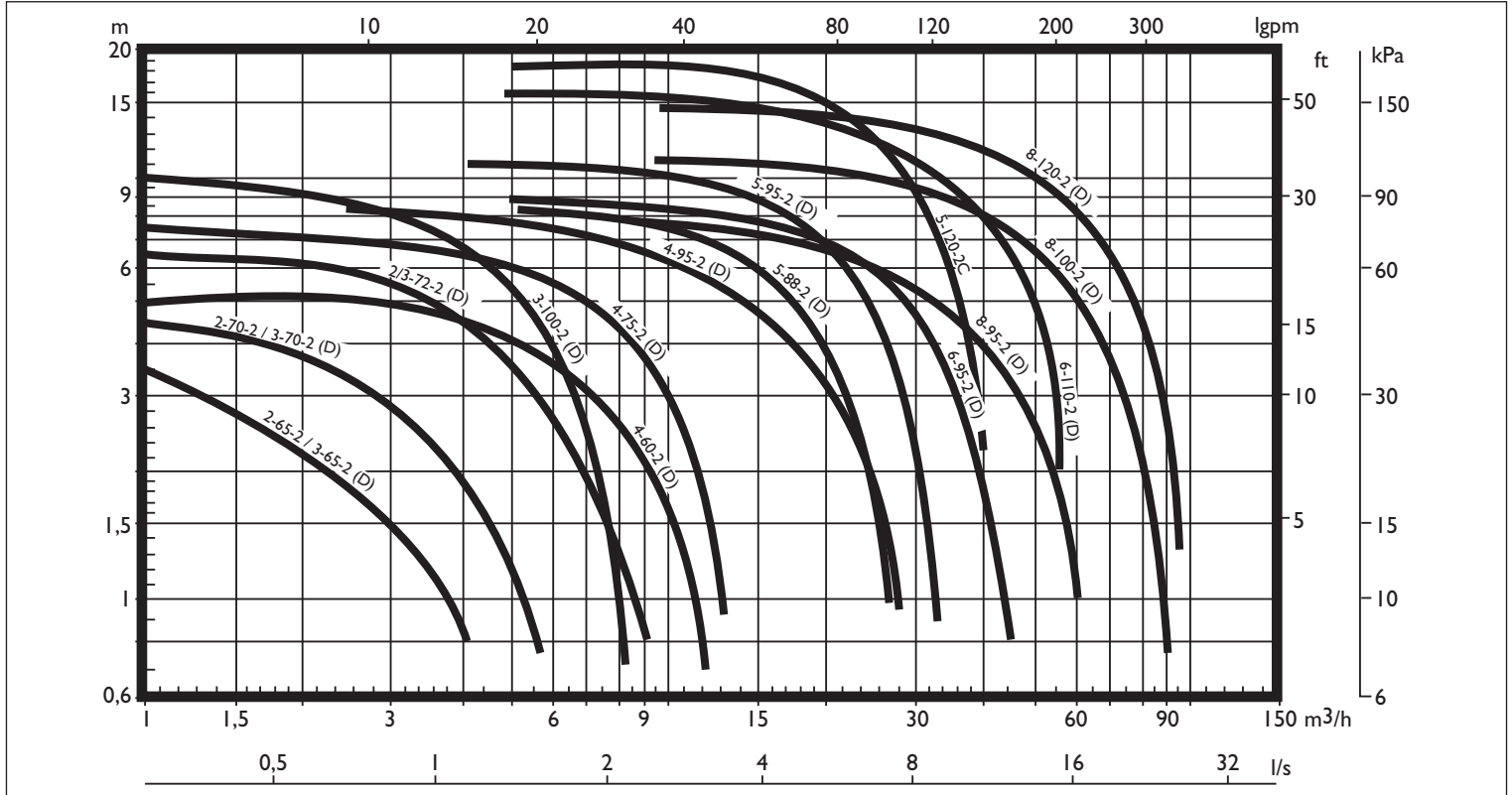


ETHERMA

4-SPEED CIRCULATOR PUMPS

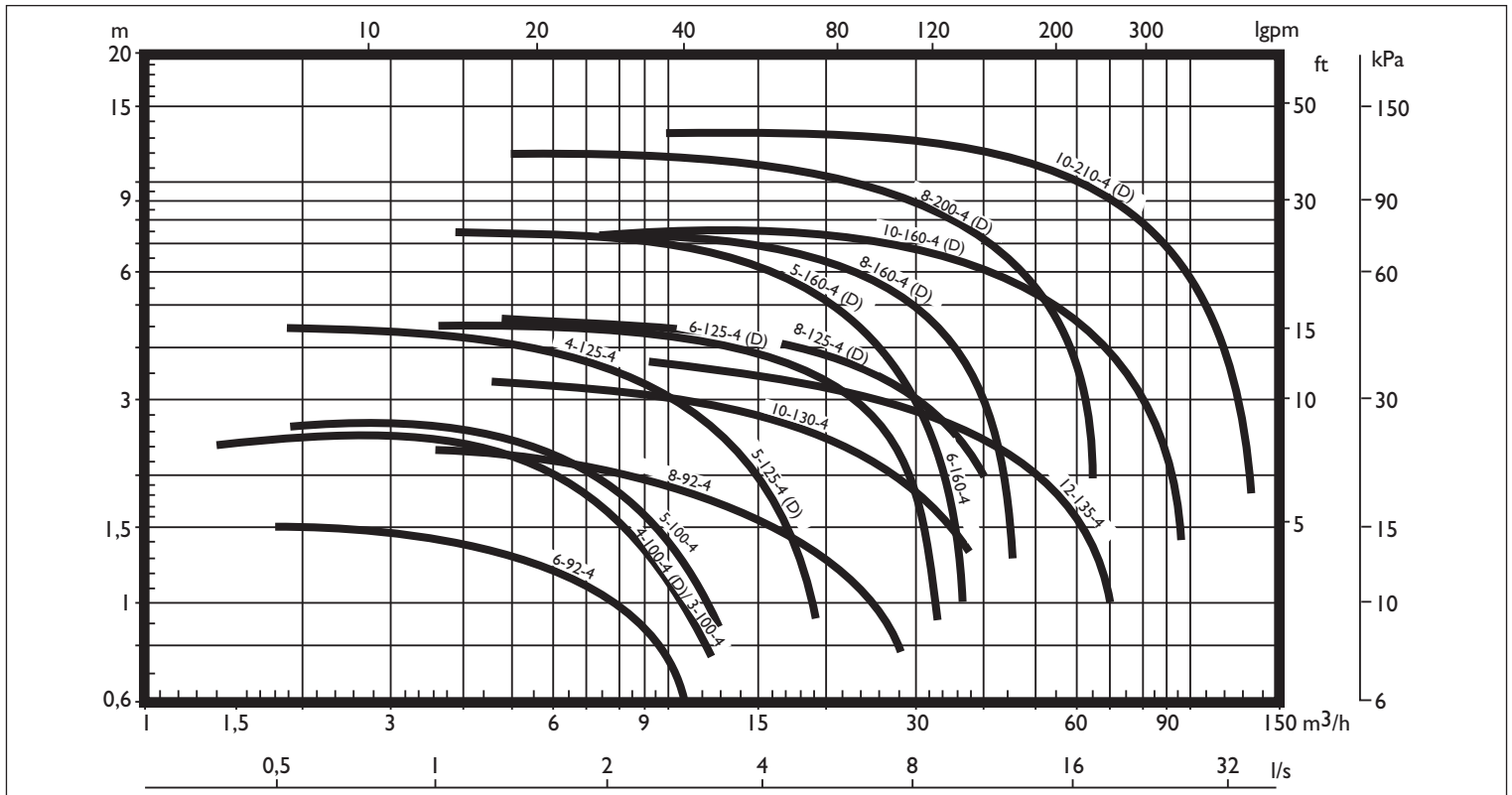
PERFORMANCE RANGE at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



PERFORMANCE RANGE at 1400 min⁻¹ (according to ISO 9906 Attachment A)

4 Poles



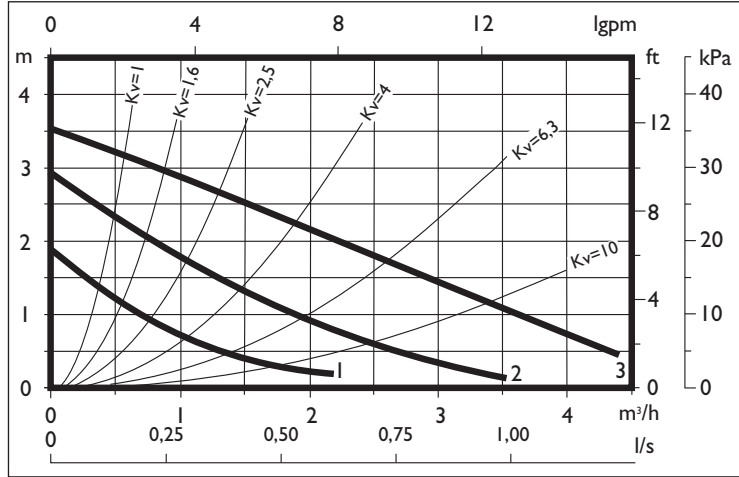


ETHERMA

4-SPEED CIRCULATOR PUMPS

ETHERMA 2-65-2 / 3-65-2 range PERFORMANCE CURVES

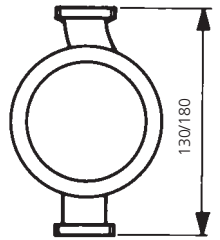
(according to ISO 9906 Attachment A)



ETHERMA 2-65-2 / 3-65-2 Single pump
 ETHERMA D 3-65-2 Twin pump
 ETHERMA B 2-65-2 / 3-65-2 Bronze

2 Poles

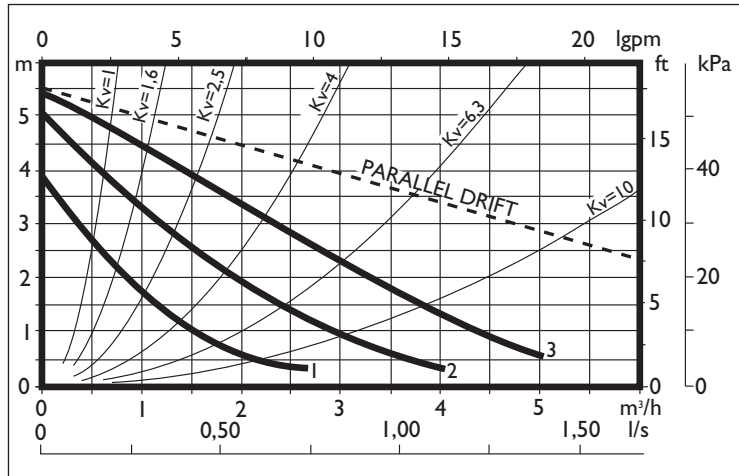
Connection
 3/4"-1"-1 1/4"



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 3 | 2350 | 50-65 | 0,30 | 0,20 |
| 2 | 1850 | 40-50 | 0,23 | - |
| 1 | 1200 | 30-35 | 0,16 | - |

ETHERMA 2-70-2 / 3-70-2 range PERFORMANCE CURVES

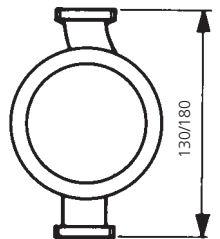
(according to ISO 9906 Attachment A)



ETHERMA 2-70-2 / 3-70-2 Single pump
 ETHERMA D 3-70-2 Twin pump
 ETHERMA B 2-70-2 / 3-70-2 Bronze

2 Poles

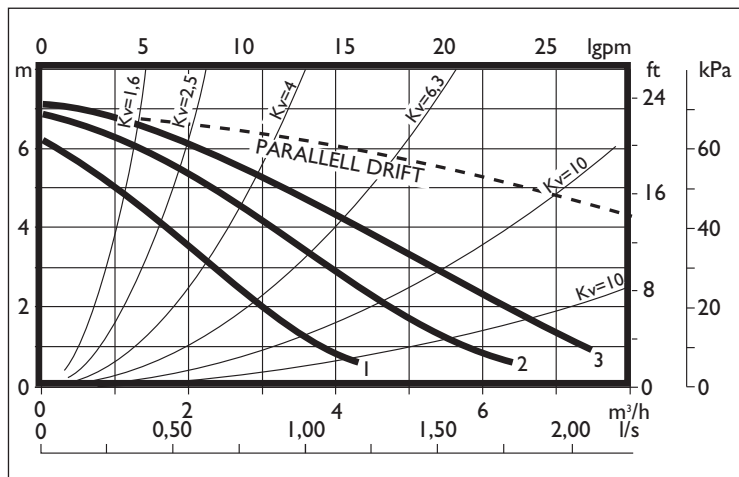
Connection
 3/4"-1"-1 1/4"



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 3 | 2350 | 90-115 | 0,55 | 0,25 |
| 2 | 1850 | 65-85 | 0,40 | - |
| 1 | 1200 | 45-55 | 0,25 | - |

ETHERMA 2-72-2 / 3-72-2 range PERFORMANCE CURVES

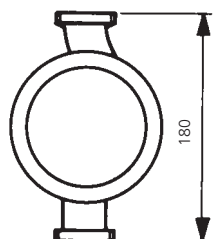
(according to ISO 9906 Attachment A)



ETHERMA 2-72-2 / 3-72-2 Single pump
 ETHERMA D 2-72-2 / 3-72-2 Twin pump
 ETHERMA B 2-72-2 / 3-72-2 Bronze

2 Poles

Connection
 3/4"-1"-1 1/4"



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2750 | 130-210 | - | 0,42 |
| 3 | 2700 | 130-200 | 0,95 | 0,33 |
| 2 | 2640 | 100-170 | 0,85 | 0,25 |
| 1 | 2340 | 85-115 | 0,60 | 0,20 |

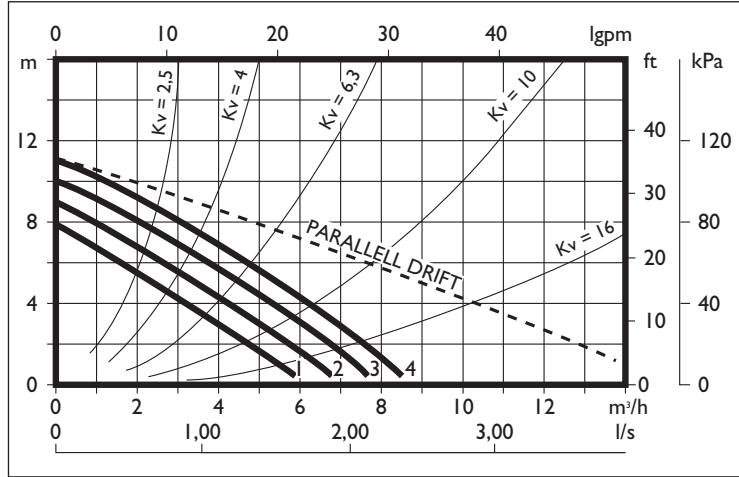


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4-SPEED CIRCULATOR PUMPS

ETHERMA 3-100-2 range PERFORMANCE CURVES

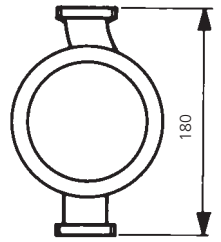
(according to ISO 9906 Attachment A)



ETHERMA 3-100-2 Single pump
 ETHERMA D 3-100-2 Twin pump
 ETHERMA B 3-100-2 Bronze

2 Poles

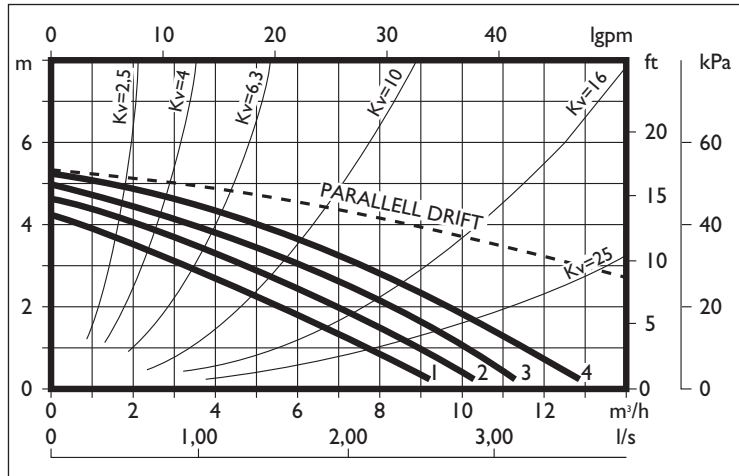
Connection
1" 1/4



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2750 | 200-290 | 1,40 | 0,55 |
| 3 | 2640 | 180-250 | 1,30 | 0,45 |
| 2 | 2480 | 150-210 | 1,20 | 0,37 |
| 1 | 2340 | 130-170 | 1,10 | 0,28 |

ETHERMA 4-60-2 range PERFORMANCE CURVES

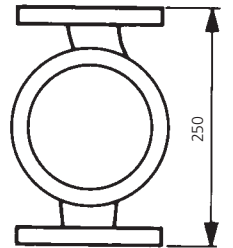
(according to ISO 9906 Attachment A)



ETHERMA 4-60-2 Single pump
 ETHERMA D 4-60-2 Twin pump
 ETHERMA B 4-60-2 Bronze

2 Poles

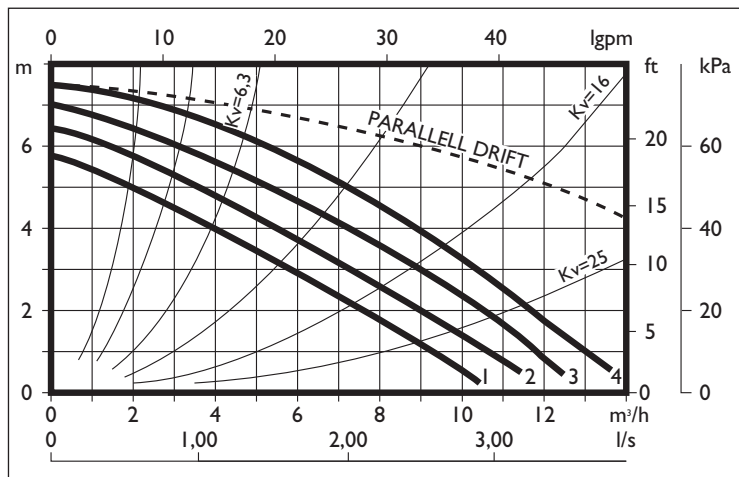
Connection
1" 1/2 - 40 mm



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2750 | 130-225 | - | 0,50 |
| 3 | 2640 | 95-188 | 1,00 | 0,36 |
| 2 | 2480 | 73-156 | 1,00 | 0,28 |
| 1 | 2340 | 64-128 | 0,88 | 0,23 |

ETHERMA 4-75-2 range PERFORMANCE CURVES

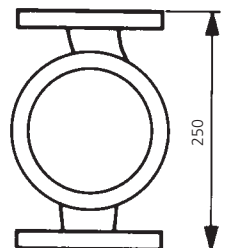
(according to ISO 9906 Attachment A)



ETHERMA 4-75-2 Single pump
 ETHERMA D 4-75-2 Twin pump
 ETHERMA B 4-75-2 Bronze

2 Poles

Connection
1" 1/2 - 40 mm



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2750 | 130-300 | 1,35 | 0,55 |
| 3 | 2640 | 120-260 | 1,25 | 0,45 |
| 2 | 2480 | 100-220 | 1,15 | 0,37 |
| 1 | 2340 | 90-175 | 1,00 | 0,30 |

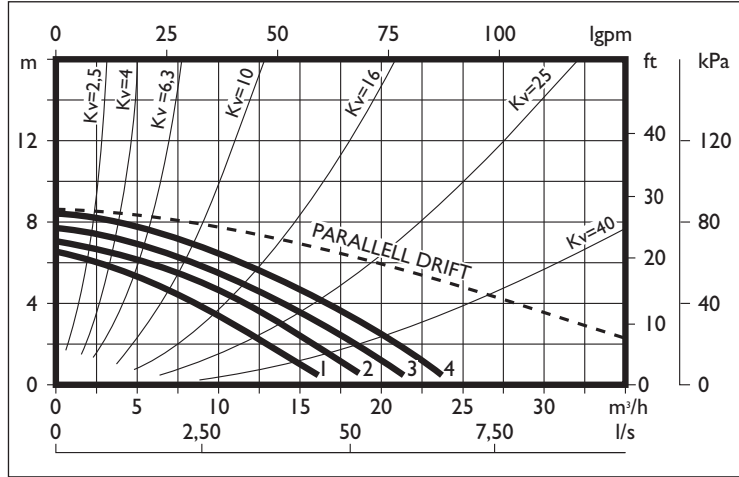


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4-SPEED CIRCULATOR PUMPS

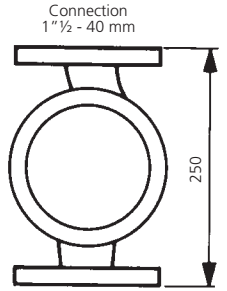
ETHERMA 4-95-2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



2 Poles

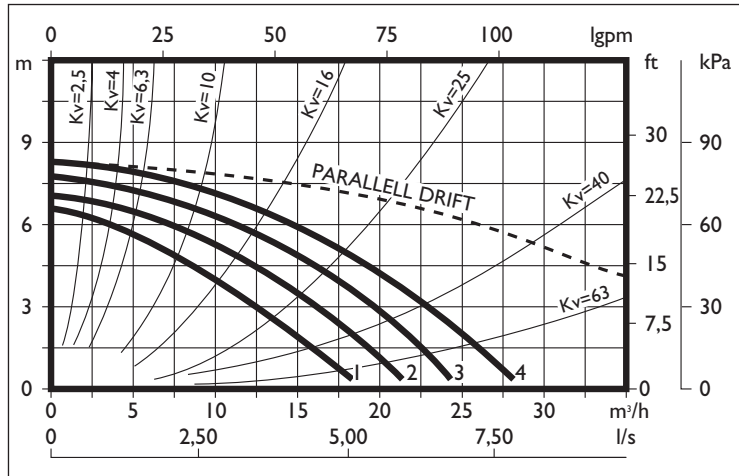
ETHERMA 4-95-2 Single pump
 ETHERMA D 4-95-2 Twin pump
 ETHERMA B 4-95-2 Bronze



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2650 | 330-580 | 2,50 | 1,10 |
| 3 | 2450 | 300-550 | 2,50 | 0,90 |
| 2 | 2270 | 280-500 | 2,40 | 0,80 |
| 1 | 1930 | 250-425 | 2,10 | 0,70 |

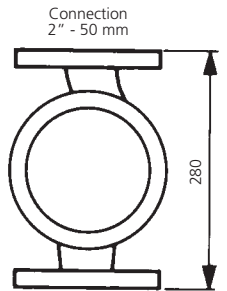
ETHERMA 5-88-2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



2 Poles

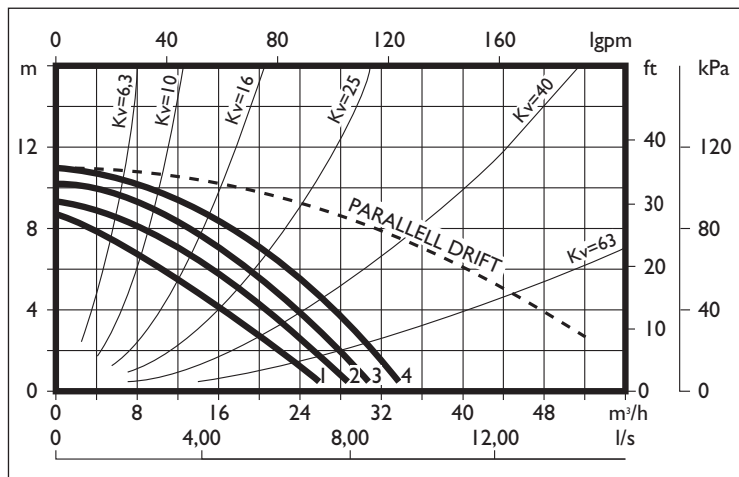
ETHERMA 5-88-2 Single pump
 ETHERMA D 5-88-2 Twin pump
 ETHERMA B 5-88-2 Bronze



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2650 | 350-650 | 2,70 | 1,20 |
| 3 | 2450 | 300-600 | 2,70 | 1,00 |
| 2 | 2270 | 280-500 | 2,50 | 0,90 |
| 1 | 1930 | 250-450 | 2,20 | 0,75 |

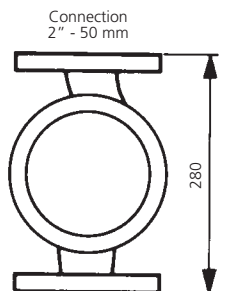
ETHERMA 5-95-2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



2 Poles

ETHERMA 5-95-2 Single pump
 ETHERMA D 5-95-2 Twin pump
 ETHERMA B 5-95-2 Bronze



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2650 | 600-980 | 4,70 | 2,00 |
| 3 | 2450 | 460-820 | 4,10 | 1,45 |
| 2 | 2270 | 400-710 | 3,85 | 1,20 |
| 1 | 1930 | 350-600 | 3,30 | 1,00 |

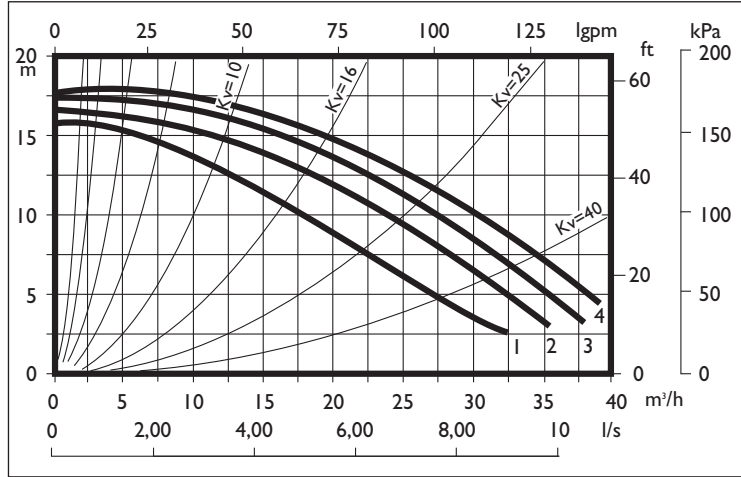


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4-SPEED CIRCULATOR PUMPS

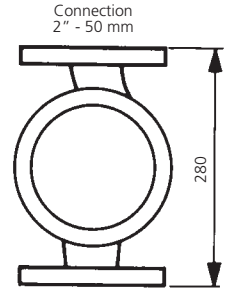
ETHERMA 5-120-2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



2 Poles

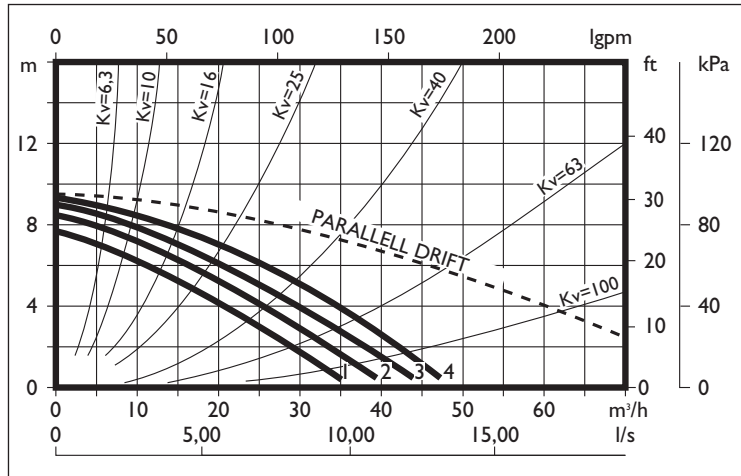
ETHERMA 5-120-2 Single pump



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2800 | 1300-2050 | 9,20 | 3,50 |
| 3 | 2660 | 1200-1850 | 8,40 | 3,20 |
| 2 | 2490 | 1000-1700 | 7,60 | 2,90 |
| 1 | 2280 | 900-1500 | 6,70 | 2,60 |

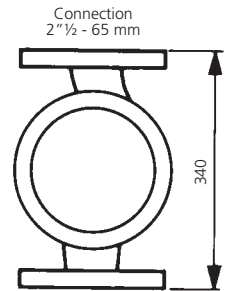
ETHERMA 6-95-2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



2 Poles

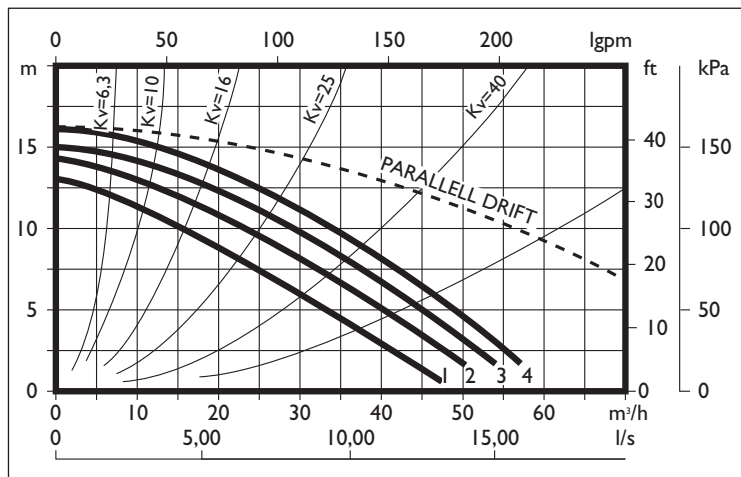
ETHERMA 6-95-2 Single pump
ETHERMA D 6-95-2 Twin pump
ETHERMA B 6-95-2 Bronze



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2800 | 680-1070 | 4,50 | 2,10 |
| 3 | 2680 | 560-920 | 2,45 | 1,58 |
| 2 | 2560 | 500-790 | 2,00 | 1,35 |
| 1 | 2380 | 425-660 | 1,65 | 1,15 |

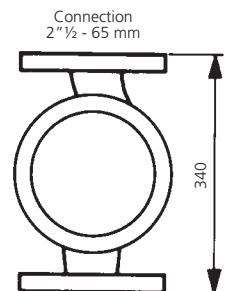
ETHERMA 6-110-2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



2 Poles

ETHERMA 6-110-2 Single pump
ETHERMA D 6-110-2 Twin pump



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2800 | 1200-2180 | 9,20 | 3,80 |
| 3 | 2660 | 1100-2050 | 8,40 | 3,50 |
| 2 | 2490 | 1000-1850 | 7,80 | 3,10 |
| 1 | 2280 | 900-1550 | 6,80 | 2,70 |

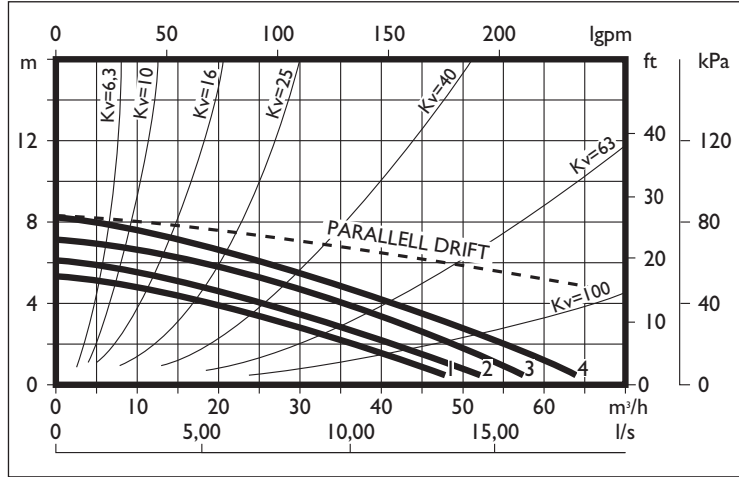


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4-SPEED CIRCULATOR PUMPS

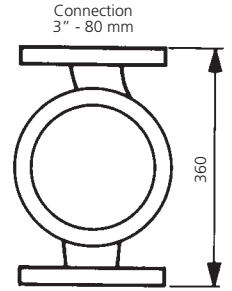
ETHERMA 8-95-2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 8-95-2 Single pump
ETHERMA D 8-95-2 Twin pump

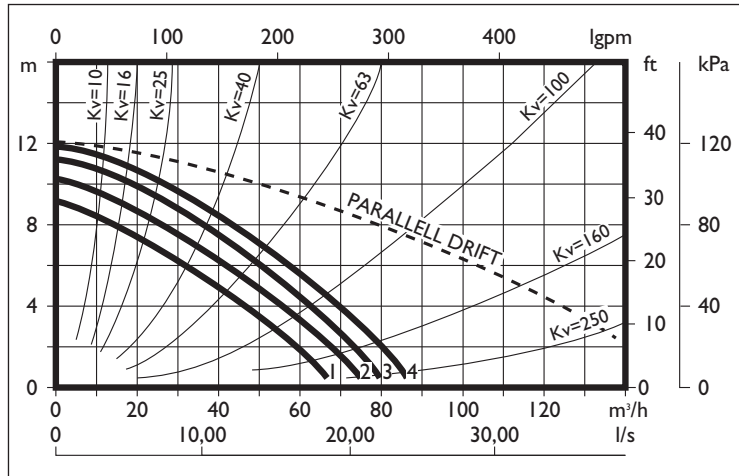
2 Poles



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2800 | 1060-1187 | 6,20 | 2,20 |
| 3 | 2680 | 963-1087 | 5,80 | 2,00 |
| 2 | 2560 | 875-992 | 4,60 | 1,72 |
| 1 | 2380 | 750-827 | 3,80 | 1,50 |

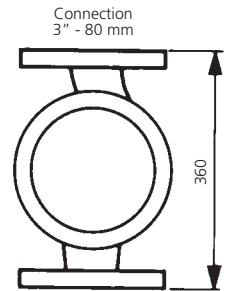
ETHERMA 8-100-2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 8-100-2 Single pump
ETHERMA D 8-100-2 Twin pump

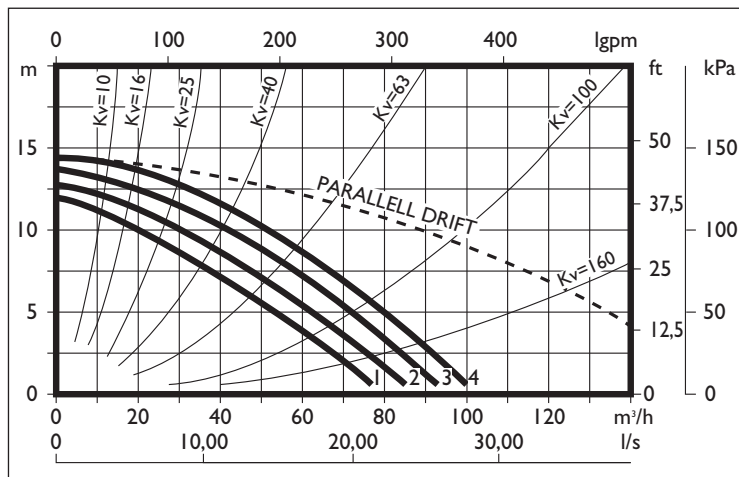
2 Poles



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2800 | 1500-2100 | 10,00 | 3,70 |
| 3 | 2660 | 1400-1900 | 9,50 | 3,30 |
| 2 | 2490 | 1250-1700 | 8,70 | 3,00 |
| 1 | 2280 | 1150-1500 | 7,60 | 2,60 |

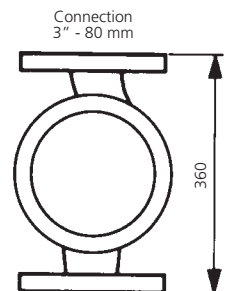
ETHERMA 8-120-2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 8-120-2 Single pump
ETHERMA D 8-120-2 Twin pump

2 Poles



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 2800 | 1850-2800 | - | 4,80 |
| 3 | 2660 | 1700-2550 | - | 4,40 |
| 2 | 2490 | 1550-2250 | - | 3,90 |
| 1 | 2280 | 1400-1850 | - | 3,30 |

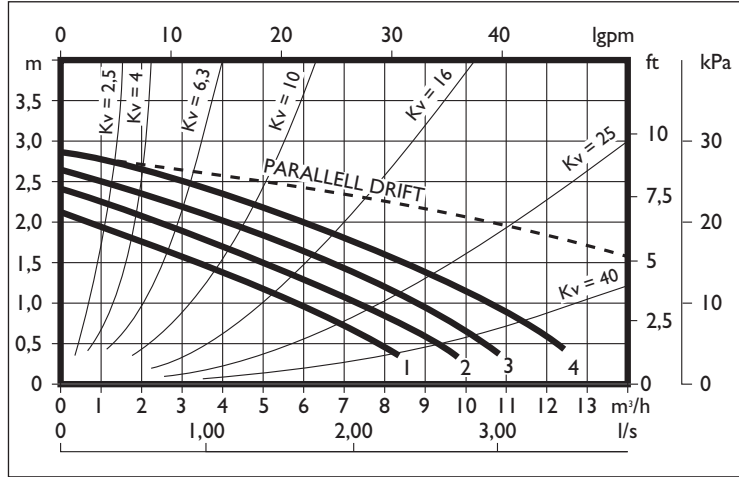


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4-SPEED CIRCULATOR PUMPS

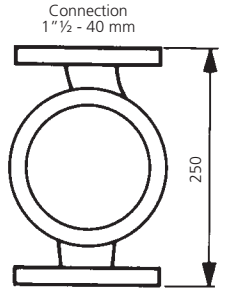
ETHERMA 4-100-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 4-100-4 Single pump
 ETHERMA D 4-100-4 Twin pump
 ETHERMA B 4-100-4 Bronze

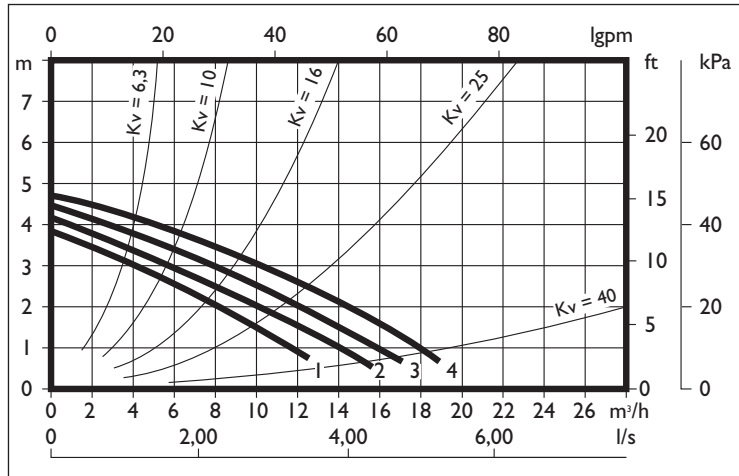
4 Poles



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1200 | 140-190 | 0,85 | 0,48 |
| 3 | 1080 | 115-160 | 0,73 | 0,34 |
| 2 | 960 | 85-130 | 0,65 | 0,25 |
| 1 | 850 | 70-105 | 0,57 | 0,20 |

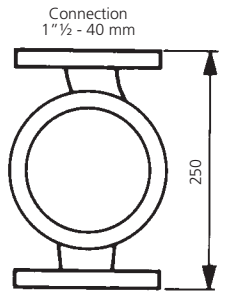
ETHERMA 4-125-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 4-125-4 Single pump

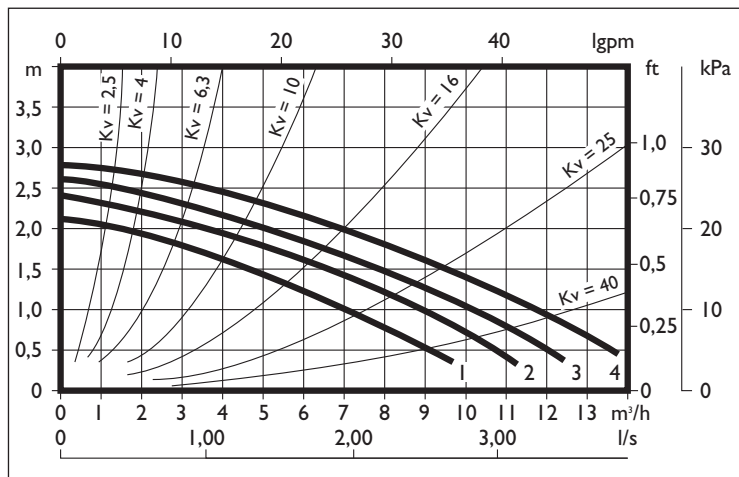
4 Poles



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1340 | 190-325 | 1,75 | 0,85 |
| 3 | 1250 | 160-300 | 1,40 | 0,65 |
| 2 | 1100 | 135-250 | 1,30 | 0,53 |
| 1 | 980 | 115-215 | 1,15 | 0,43 |

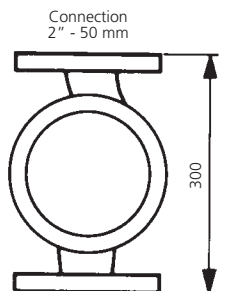
ETHERMA 5-100-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 5-100-4 Single pump

4 Poles



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1200 | 140-200 | 0,85 | 0,48 |
| 3 | 1080 | 115-170 | 0,75 | 0,34 |
| 2 | 960 | 85-135 | 0,65 | 0,26 |
| 1 | 850 | 70-110 | 0,58 | 0,21 |

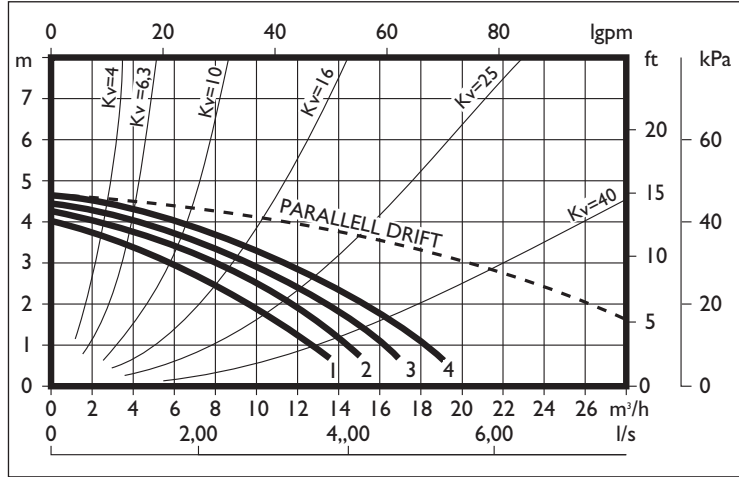


ETHERMA

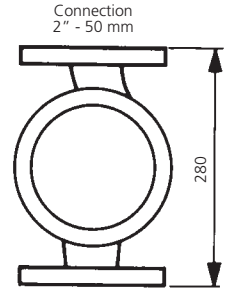
4-SPEED CIRCULATOR PUMPS

ETHERMA 5-125-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 5-125-4 Single pump
 ETHERMA D 5-125-4 Twin pump
 ETHERMA B 5-125-4 Bronze

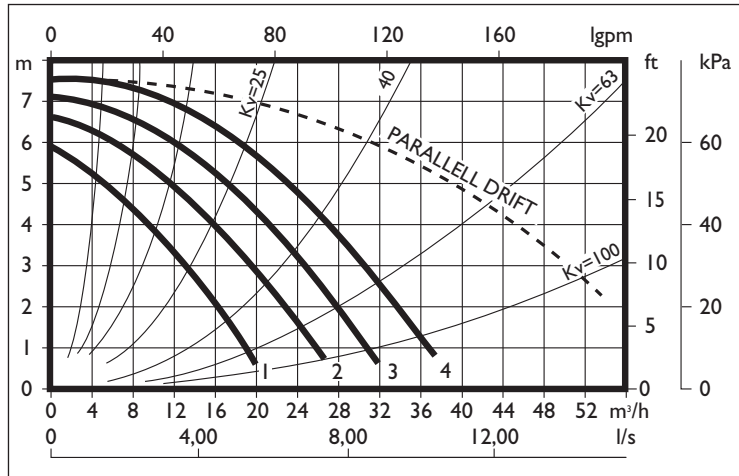


| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1340 | 190-330 | 1,80 | 0,88 |
| 3 | 1250 | 160-300 | 1,40 | 0,67 |
| 2 | 1100 | 130-260 | 1,30 | 0,55 |
| 1 | 980 | 120-220 | 1,20 | 0,45 |

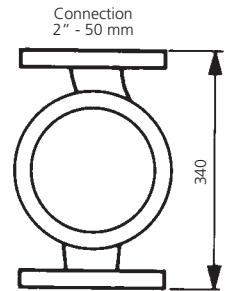
4 Poles

ETHERMA 5-160-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 5-160-4 Single pump
 ETHERMA D 5-160-4 Twin pump

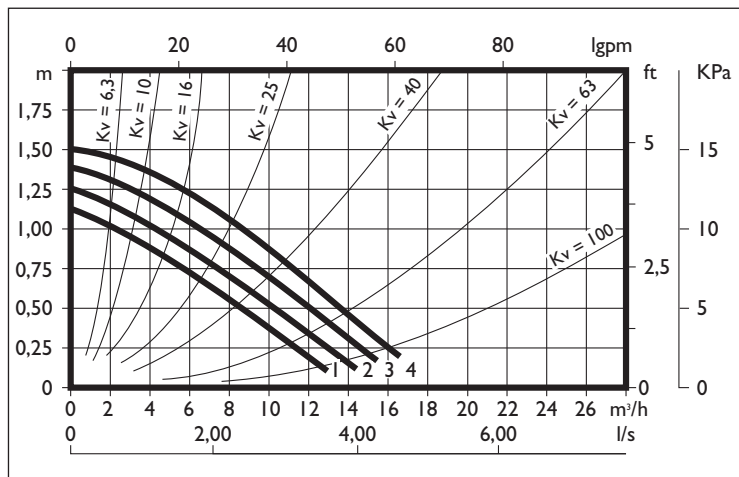


| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1360 | 428-900 | 5,20 | 2,00 |
| 3 | 1290 | 396-820 | 4,00 | 1,71 |
| 2 | 1210 | 344-680 | 3,00 | 1,45 |
| 1 | 1110 | 311-530 | 2,58 | 1,19 |

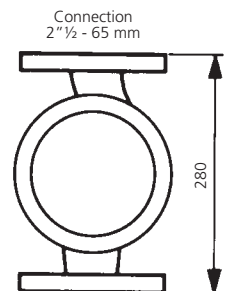
4 Poles

ETHERMA 6-92-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 6-92-4 Single pump



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1200 | 158-173 | 0,97 | 0,62 |
| 3 | 1080 | 126-142 | 0,94 | 0,42 |
| 2 | 960 | 96-109 | 0,88 | 0,30 |
| 1 | 850 | 75-85 | 0,81 | 0,23 |

4 Poles

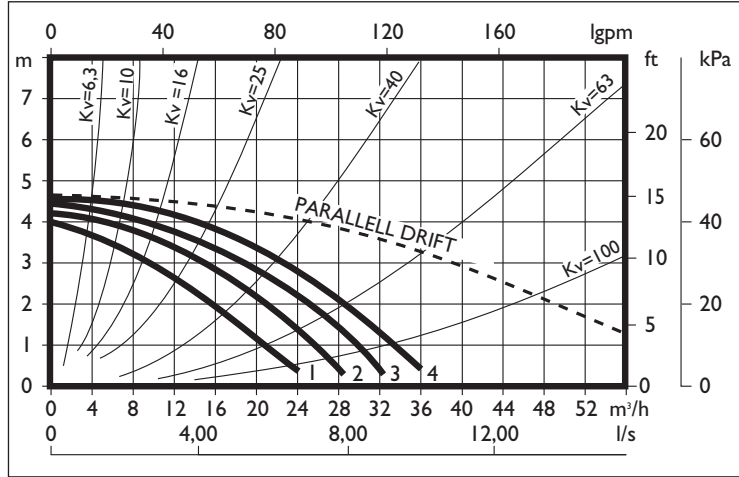


ETHERMA

4-SPEED CIRCULATOR PUMPS

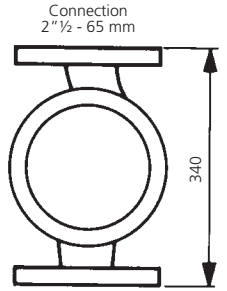
ETHERMA 6-125-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



4 Poles

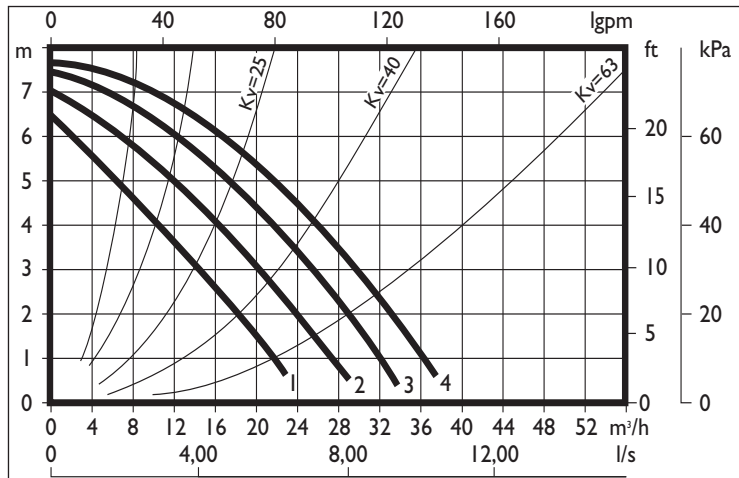
ETHERMA 6-125-4 Single pump
 ETHERMA D 6-125-4 Twin pump
 ETHERMA B 6-125-4 Bronze



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1380 | 250-490 | 2,50 | 1,15 |
| 3 | 1330 | 210-450 | 2,20 | 0,95 |
| 2 | 1260 | 180-390 | 2,00 | 0,80 |
| 1 | 1180 | 160-340 | 1,80 | 0,65 |

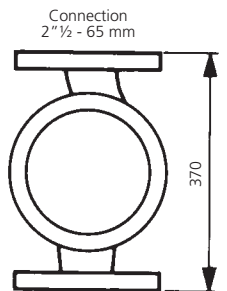
ETHERMA 6-160-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



4 Poles

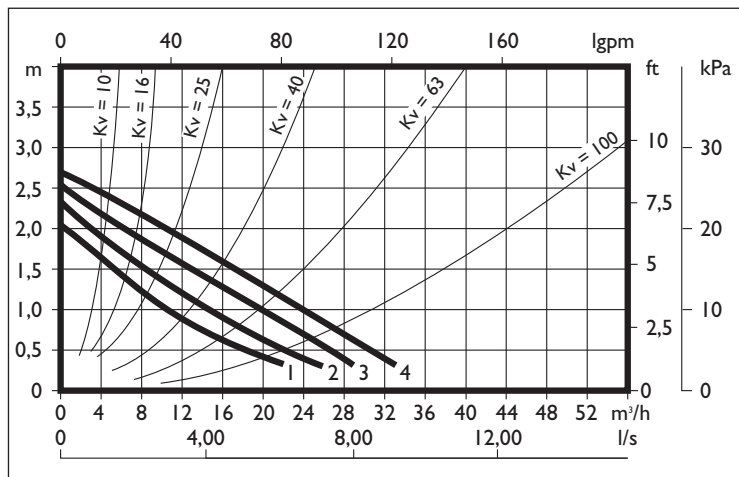
ETHERMA 6-160-4 Single pump



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1360 | 380-770 | 5,10 | 1,70 |
| 3 | 1290 | 350-730 | 3,90 | 1,40 |
| 2 | 1210 | 310-630 | 2,90 | 1,20 |
| 1 | 1110 | 270-530 | 2,40 | 1,00 |

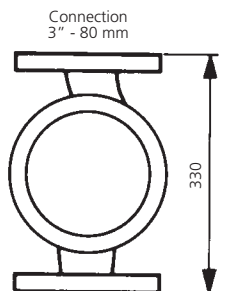
ETHERMA 8-92-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



4 Poles

ETHERMA 8-92-4 Single pump



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1340 | 256-346 | 1,86 | 1,03 |
| 3 | 1250 | 211-290 | 1,70 | 0,92 |
| 2 | 1100 | 185-246 | 1,54 | 0,83 |
| 1 | 980 | 156-200 | 1,41 | 0,76 |

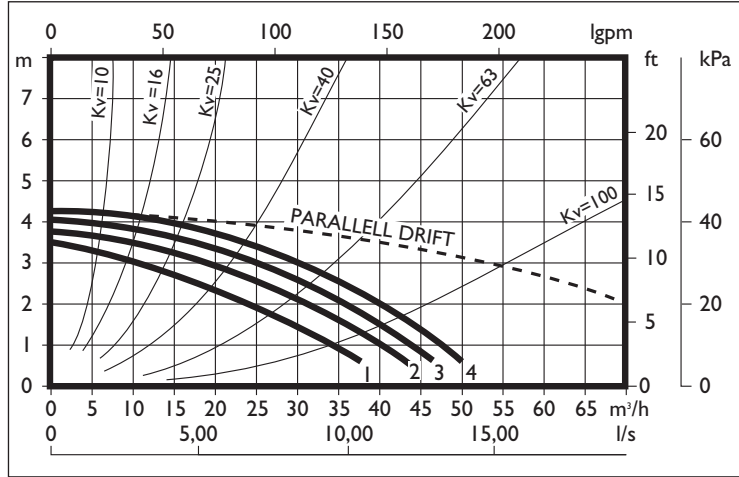


ETHERMA

4-SPEED CIRCULATOR PUMPS

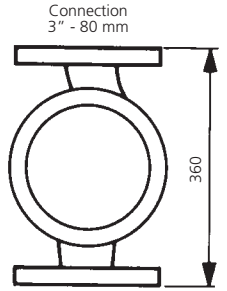
ETHERMA 8-125-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 8-125-4 Single pump
ETHERMA D 8-125-4 Twin pump

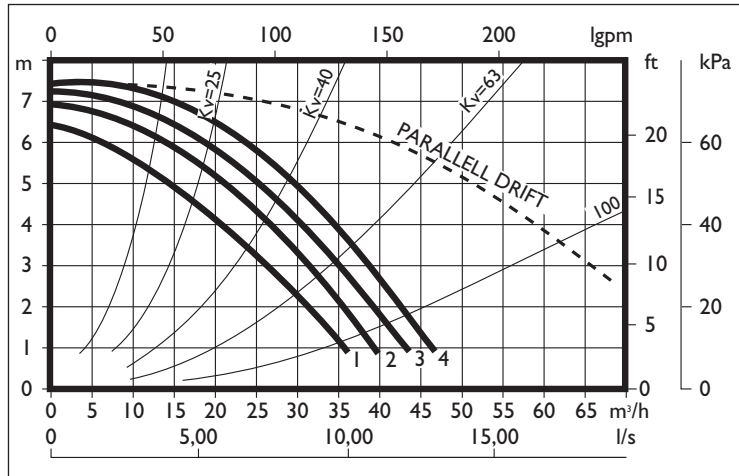
4 Poles



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1360 | 375-574 | 3,00 | 1,59 |
| 3 | 1290 | 342-531 | 2,75 | 1,23 |
| 2 | 1210 | 302-473 | 2,65 | 1,03 |
| 1 | 1110 | 270-416 | 2,53 | 0,90 |

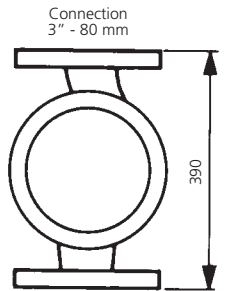
ETHERMA 8-160-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 8-160-4 Single pump
ETHERMA D 8-160-4 Twin pump

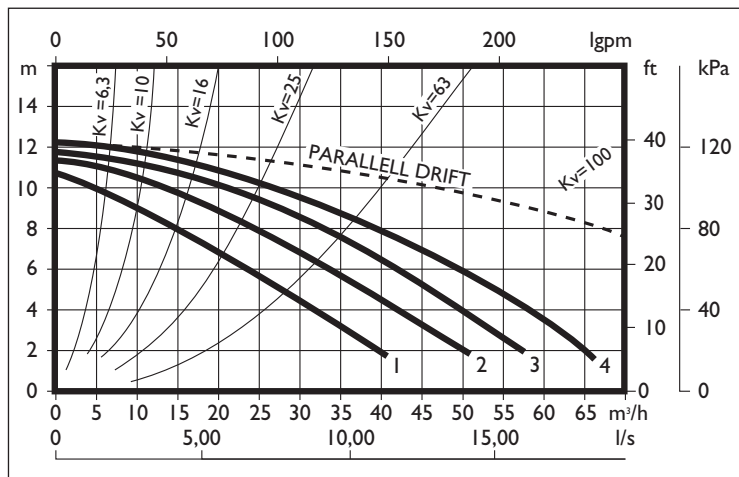
4 Poles



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1370 | 550-1000 | - | 2,40 |
| 3 | 1280 | 500-950 | - | 2,00 |
| 2 | 1190 | 450-820 | - | 1,75 |
| 1 | 1080 | 410-700 | - | 1,50 |

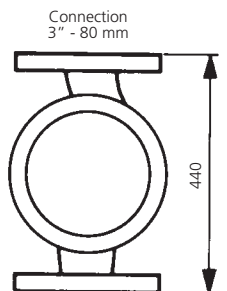
ETHERMA 8-200-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



ETHERMA 8-200-4 Single pump
ETHERMA D 8-200-4 Twin pump

4 Poles



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1390 | 900-1900 | - | 4,10 |
| 3 | 1310 | 840-1800 | - | 3,60 |
| 2 | 1240 | 770-1600 | - | 3,20 |
| 1 | 1100 | 700-1300 | - | 2,85 |

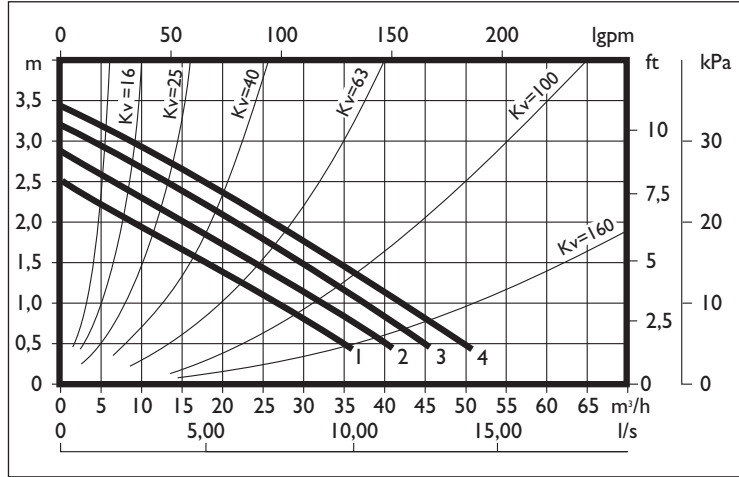


ETHERMA

4-SPEED CIRCULATOR PUMPS

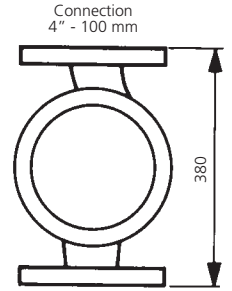
ETHERMA 10-130-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



4 Poles

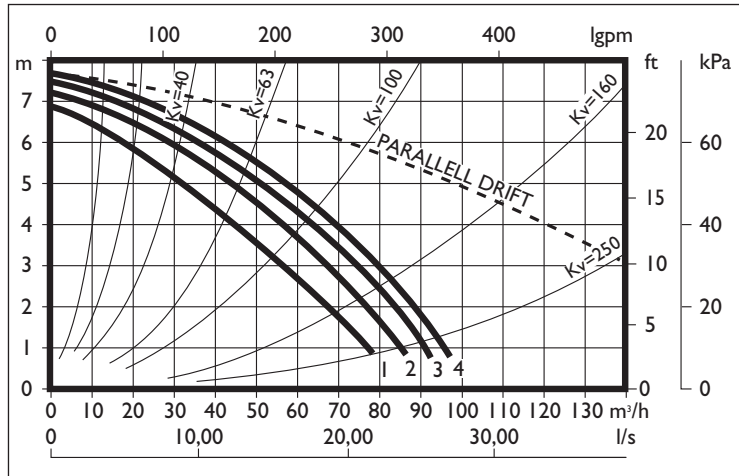
ETHERMA 10-130-4 Single pump



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1380 | 442-500 | 2,60 | 1,40 |
| 3 | 1330 | 416-470 | 2,37 | 1,29 |
| 2 | 1260 | 371-418 | 2,16 | 1,16 |
| 1 | 1180 | 323-357 | 1,93 | 1,06 |

ETHERMA 10-160-4 range PERFORMANCE CURVES

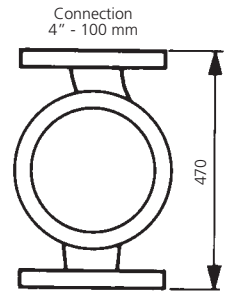
(according to ISO 9906 Attachment A)



4 Poles

ETHERMA 10-160-4 Single pump

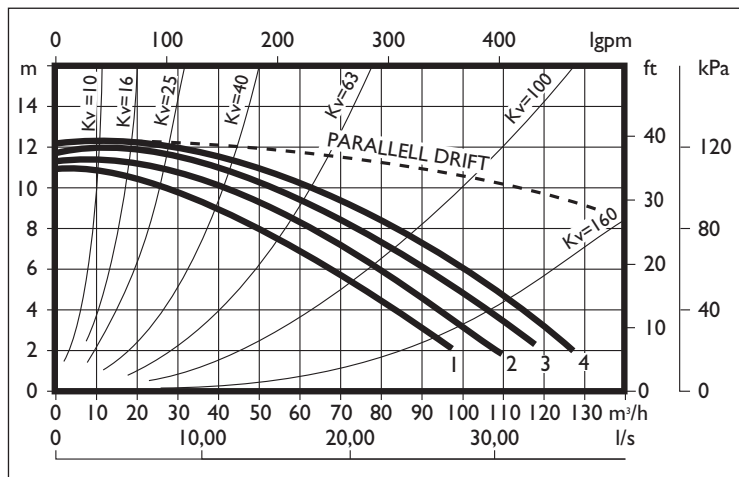
ETHERMA D 10-160-4 Twin pump



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1390 | 1016-1549 | - | 3,69 |
| 3 | 1310 | 955-1481 | - | 3,23 |
| 2 | 1240 | 876-1385 | - | 2,88 |
| 1 | 1100 | 819-1245 | - | 2,66 |

ETHERMA 10-210-4 range PERFORMANCE CURVES

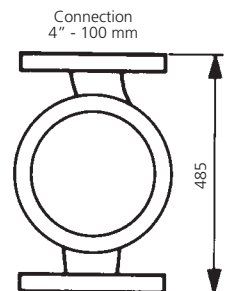
(according to ISO 9906 Attachment A)



4 Poles

ETHERMA 10-210-4 Single pump

ETHERMA D 10-210-4 Twin pump



| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1420 | 1750-3500 | - | 7,40 |
| 3 | 1330 | 1650-3400 | - | 6,70 |
| 2 | 1220 | 1500-3000 | - | 6,15 |
| 1 | 1000 | 1400-2600 | - | 5,55 |



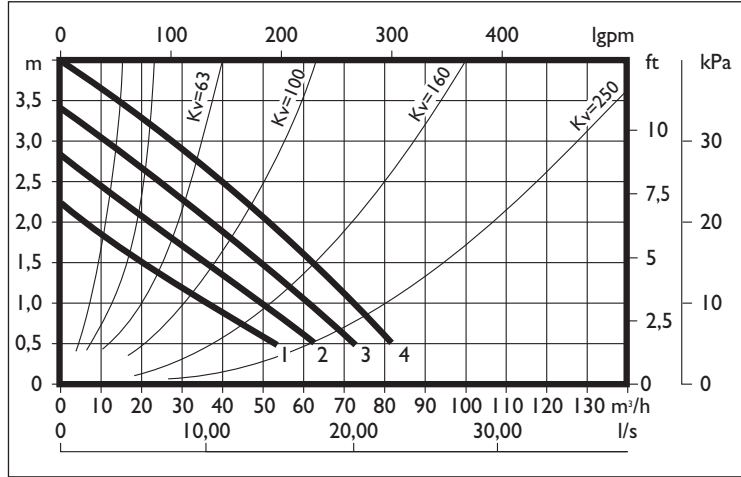
ETHERMA

4-SPEED CIRCULATOR PUMPS

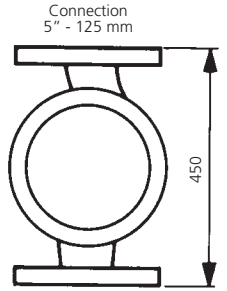
4 Poles

ETHERMA 12-135-4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

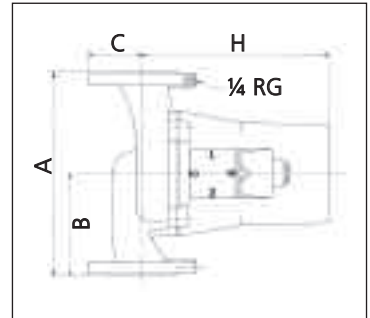
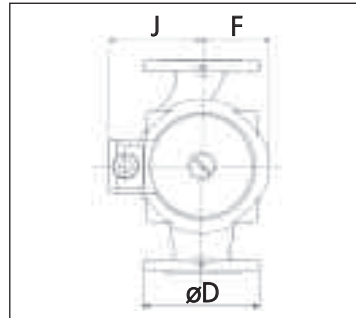
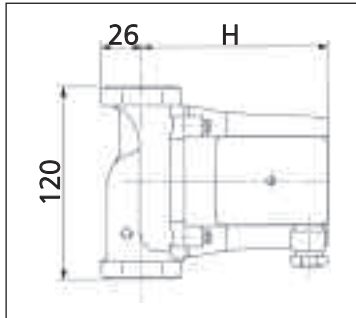
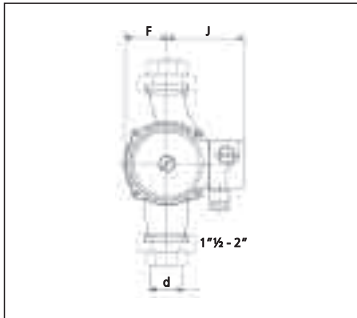


ETHERMA 12-135-4 Single pump

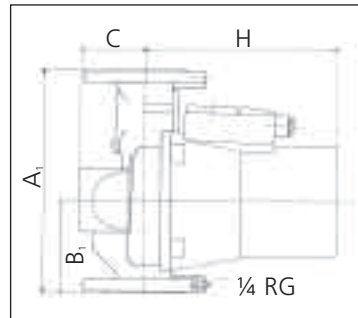
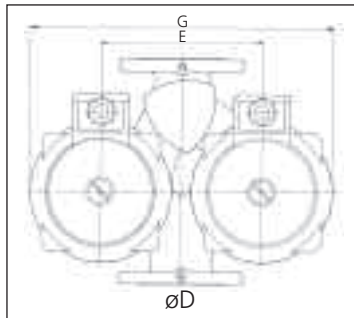
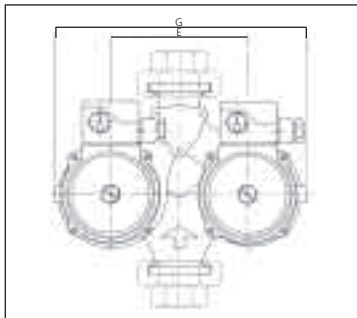


| Speed | R.P.M. | P ₁ [W] | I [A] | |
|-------|--------|--------------------|---------|---------|
| | | | 1 x 230 | 3 x 400 |
| 4 | 1360 | 734-897 | 5,20 | 2,00 |
| 3 | 1290 | 678-826 | 4,00 | 1,71 |
| 2 | 1210 | 590-695 | 3,00 | 1,45 |
| 1 | 1110 | 492-553 | 2,58 | 1,19 |

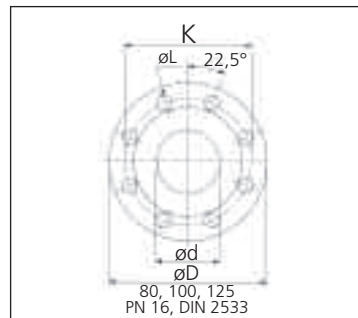
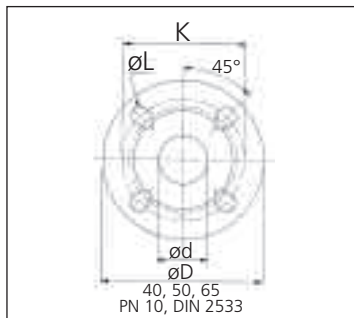
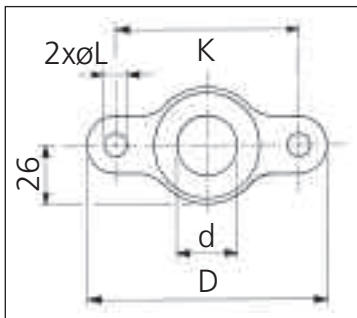
SINGLE PUMP DIMENSIONS



TWIN PUMP DIMENSIONS



FLANGE DIMENSIONS





ETHERMA

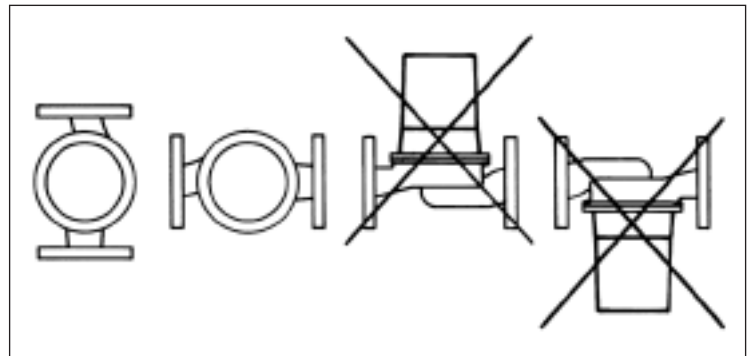
4-SPEED CIRCULATOR PUMPS

DIMENSIONS TABLE

| Model | | A | A1 | B | B1 | C | C1 | D | d | E | F | G | H | J | PN 6 | | PN 10 | | Weight [kg] | |
|------------------|-----|---------|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|------|------|-------|----|-------------|-------|
| | | | | | | | | | | | | | | | K | L | K | L | Single | Twin |
| ETHERMA 2/3-65-2 | (D) | 130/180 | 180 | 90 | 75 | 40 | 40 | - | 1"-1"¼ | 130 | 50 | 245 | 110 | 85 | 80 | M 10 | - | - | 3,0 | 6,4 |
| ETHERMA 2/3-70-2 | (D) | 130/180 | 180 | 90 | 75 | 40 | 40 | - | 1"-1"¼ | 130 | 50 | 245 | 110 | 85 | 80 | M 10 | - | - | 3,2 | 6,8 |
| ETHERMA 2/3-72-2 | (D) | 180 | 180 | 90 | 75 | 40 | 40 | - | 1"-1"¼ | 130 | 50 | 245 | 145 | 85 | - | - | - | - | 4,5 | 8,5 |
| ETHERMA 3-100-2 | (D) | 180 | 180 | 90 | 75 | 32 | 50 | - | 1"¼ | 160 | 65 | 305 | 180 | 95 | - | - | - | - | 6,3 | 13,3 |
| ETHERMA 4-60-2 | (D) | 250 | 250 | 125 | 90 | 75 | 75 | 150 | 40 | 200 | 75 | 350 | 160 | 90 | 100 | 14 | 110 | 19 | 10,0 | 18,2 |
| ETHERMA 4-75-2 | (D) | 250 | 250 | 125 | 90 | 75 | 75 | 150 | 40 | 200 | 75 | 350 | 165 | 95 | 100 | 14 | 110 | 19 | 11,3 | 19,0 |
| ETHERMA 4-95-2 | (D) | 250 | 250 | 125 | 90 | 75 | 75 | 150 | 40 | 200 | 75 | 350 | 200 | 105 | 100 | 14 | 110 | 19 | 14,2 | 25,0 |
| ETHERMA 4-100-4 | (D) | 250 | 250 | 125 | 90 | 75 | 75 | 150 | 40 | 200 | 65 | 350 | 160 | 95 | 100 | 14 | 110 | 19 | 11,7 | 20,2 |
| ETHERMA 4-125-4 | | 250 | - | 125 | - | 75 | - | 150 | 40 | - | 95 | - | 205 | 100 | 100 | 14 | 110 | 19 | 11,7 | - |
| ETHERMA 5-88-2 | (D) | 280 | 280 | 140 | 120 | 83 | 83 | 165 | 50 | 200 | 85 | 390 | 200 | 105 | 110 | 14 | 125 | 19 | 17,5 | 29,5 |
| ETHERMA 5-95-2 | (D) | 280 | 280 | 140 | 120 | 83 | 83 | 165 | 50 | 200 | 95 | 390 | 230 | 125 | 110 | 14 | 125 | 19 | 28,6 | 52,0 |
| ETHERMA 5-120-2 | | 280 | - | 140 | - | 83 | - | 165 | 50 | - | 105 | - | 280 | 125 | 110 | 14 | 125 | 19 | 14,4 | - |
| ETHERMA 5-100-4 | | 300 | - | 150 | - | 83 | - | 165 | 50 | - | 75 | - | 155 | 90 | 110 | 14 | 125 | 19 | 14,4 | - |
| ETHERMA 5-125-4 | (D) | 280 | 280 | 140 | 120 | 83 | 83 | 165 | 50 | 200 | 85 | 390 | 200 | 105 | 110 | 14 | 125 | 19 | 17,6 | 33,0 |
| ETHERMA 5-160-4 | (D) | 340 | 340 | 170 | 145 | 85 | 85 | 165 | 50 | 250 | 105 | 480 | 250 | 125 | 110 | 14 | 125 | 19 | 38,0 | 73,5 |
| ETHERMA 6-95-2 | (D) | 340 | 340 | 170 | 140 | 93 | 93 | 185 | 65 | 240 | 105 | 455 | 235 | 125 | 130 | 14 | 145 | 19 | 35,0 | 60,5 |
| ETHERMA 6-110-2 | (D) | 340 | 340 | 170 | 140 | 93 | 93 | 185 | 65 | 240 | 105 | 455 | 280 | 125 | 130 | 14 | 145 | 19 | 41,5 | 72,0 |
| ETHERMA 6-92-4 | | 280 | - | 140 | - | 93 | - | 185 | 65 | - | 80 | - | 170 | 90 | 130 | 14 | 145 | 19 | 15,5 | - |
| ETHERMA 6-125-4 | (D) | 340 | 340 | 170 | 140 | 93 | 93 | 185 | 65 | 240 | 105 | 455 | 235 | 125 | 130 | 14 | 145 | 19 | 34,5 | 58,5 |
| ETHERMA 6-160-4 | | 370 | - | 190 | - | 93 | - | 185 | 65 | - | 105 | - | 235 | 125 | 130 | 14 | 145 | 19 | 40,0 | - |
| ETHERMA 8-95-2 | (D) | 360 | 360 | 185 | 160 | 100 | 102 | 200 | 80 | 270 | 105 | 505 | 240 | 125 | - | - | 160 | 19 | 42,0 | 72,5 |
| ETHERMA 8-100-2 | (D) | 360 | 360 | 185 | 160 | 100 | 100 | 200 | 80 | 270 | 105 | 510 | 290 | 125 | - | - | 160 | 19 | 49,5 | 85,5 |
| ETHERMA 8-120-2 | (D) | 360 | 360 | 185 | 160 | 100 | 100 | 200 | 80 | 270 | 105 | 510 | 290 | 125 | - | - | 160 | 19 | 50,0 | 84,5 |
| ETHERMA 8-92-4 | | 330 | - | 170 | - | 100 | - | 200 | 80 | - | 100 | - | 230 | 100 | - | - | 160 | 19 | 26,0 | - |
| ETHERMA 8-125-4 | (D) | 360 | 360 | 185 | 160 | 100 | 102 | 200 | 80 | 270 | 105 | 510 | 240 | 130 | - | - | 160 | 19 | 42,0 | 72,5 |
| ETHERMA 8-160-4 | (D) | 390 | 360 | 200 | 160 | 100 | 100 | 200 | 80 | 270 | 110 | 520 | 290 | 135 | - | - | 160 | 19 | 46,5 | 79,8 |
| ETHERMA 8-200-4 | (D) | 440 | 440 | 220 | 180 | 105 | 100 | 200 | 80 | 270 | 105 | 510 | 290 | 130 | - | - | 160 | 19 | 72,5 | 123,0 |
| ETHERMA 10-130-4 | | 380 | - | 200 | - | 110 | - | 220 | 100 | - | 125 | - | 270 | 125 | - | - | 180 | 19 | 41,0 | - |
| ETHERMA 10-160-4 | (D) | 470 | 485 | 260 | 210 | 130 | 150 | 220 | 100 | 378 | 135 | 740 | 292 | 200 | - | - | 180 | 19 | 79,0 | 152,0 |
| ETHERMA 10-210-4 | (D) | 485 | 485 | 250 | 210 | 150 | 150 | 220 | 100 | 378 | 135 | 740 | 355 | 200 | - | - | 180 | 19 | 90,5 | 170,5 |
| ETHERMA 12-135-4 | | 450 | - | 225 | - | 150 | - | 250 | 125 | - | 160 | - | 300 | 160 | - | - | 210 | 19 | 60,0 | - |

INSTALLATION

The pumps must always be installed with the shaft placed horizontally and the motor terminal box must not be overturned. The pump motor must not be insulated because it is very important that the drain holes (especially for condensate) in the motor flange are free, i.e. not blocked.



TWIN PUMP

Parallel operation is possible using twin pumps with unique body. This is useful when high flow rates and low heads are necessary or when high flow rate is necessary for a brief period of time.

Parallel operation means smaller motor dimension and high flexibility in saving electricity. The performance curves given in this catalogue also show parallel functioning of the twin pumps.



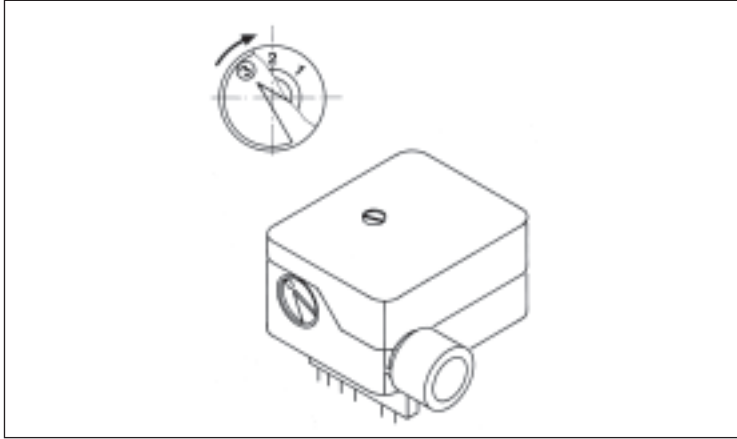


ETHERMA

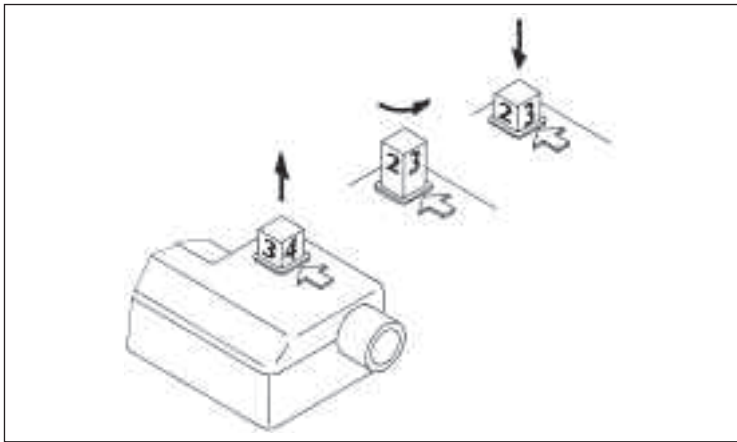
4-SPEED CIRCULATOR PUMPS

SPEED REGULATION

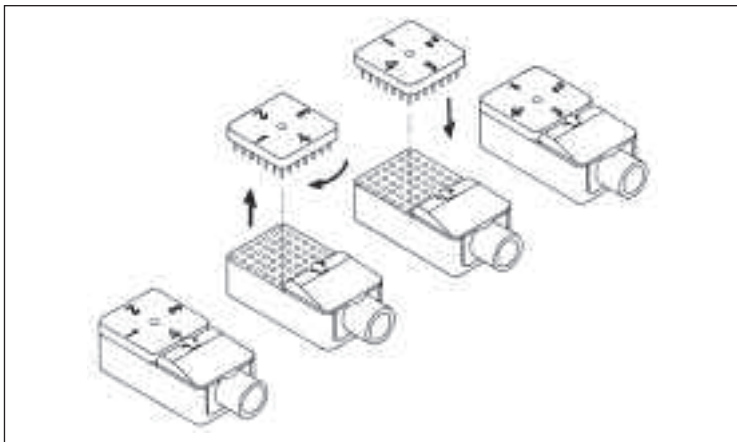
1. 3 speed single phase



2. 4 speed single phase



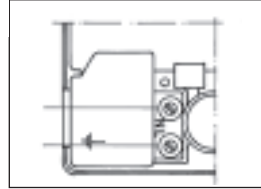
3. 4 three phase speed



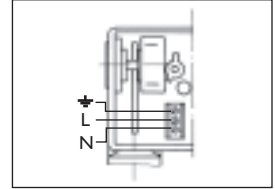
ELECTRIC CONNECTIONS

DIAG. A

N Phase

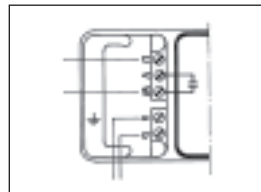


DIAG. K



DIAG. C

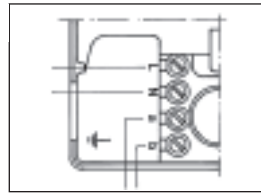
N Phase, L



Overload circuit breaker protection

DIAG. B

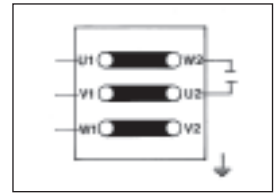
N Phase



Overload circuit breaker protection

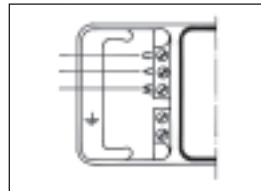
DIAG. D

N Phase, L



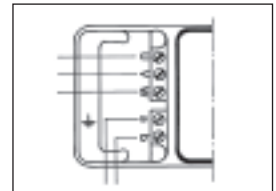
DIAG. E

Phase, L1
Phase, L2
Phase, L3



DIAG. F

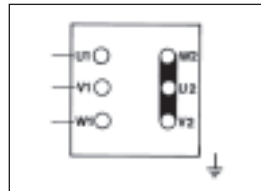
Phase, L1
Phase, L2
Phase, L3



Overload circuit breaker protection

DIAG. G

Phase, L1
Phase, L2
Phase, L3



Overload circuit breaker protection

DIAG. H

Phase, L1
Phase, L2
Phase, L3

