

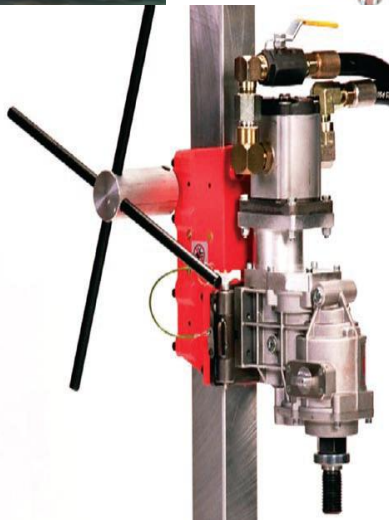
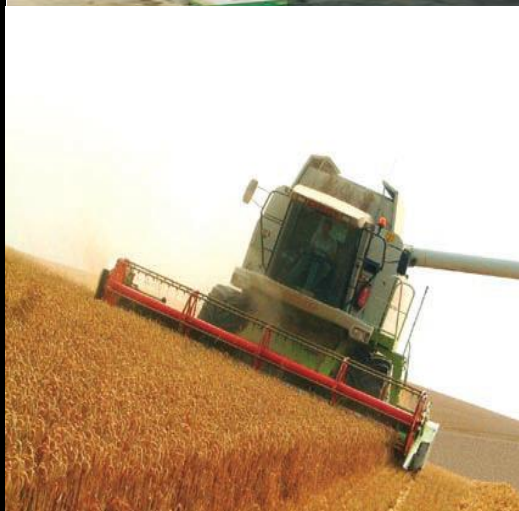
## ***COMPANY PRODUCT INFORMATION***

Heatech air oil cooled are applied mainly to hydraulic machinery and tools.  
Heatech series products are based on the theory to be the fluid dynamics and the performance is verified through sufficient the practical course actual driving.  
Realized to a small size structure and the light weight, and also beautiful and strong appearance with high technology and selected material.  
Prepared wide range of size and various specification.  
Can be chosen by the purpose, capacity and install place.



# **OIL / AIR HEATEXCHANGER**

## ***APPLICATIONS TECHNOLOGY***



Head office: 1020-5 Sin jiong yangchun-gu Seoul.South KOREA

Factory: 182 Nusan-ri, yangchon-myeon, Gimpo-si Gyeonggi-dol. KOREA

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E- mail : [heatech1213@gmail.com](mailto:heatech1213@gmail.com)



# HEATECH CO.,LTD

## Hydraulic Cooling System

### HEATECH- COOLER OPERATING DATAS

**Type : Induction Motor ( AC ,DC)**

**Model : Heatech 015 ~ 110 series , Heatech07 ~33 (DC12V, 24V)**

|           |                                       |                  |
|-----------|---------------------------------------|------------------|
| ◆ 설계 조건 : | 주변 공기 온도 :                            | 40 ℃ / 104 °F    |
|           | 오일 등급 :                               | ISO VG 46        |
|           | 오일 입구 온도 :                            | 50 ℃             |
|           | 쿨러 입/출구 압력차 :                         | 2 kg/cm2         |
|           | Cooling Capacity ( Kw / Kcal/Hour ) : | 최대 215 / 185,000 |
|           | Oil Flow ( liter/min ) :              | 5 ~ 500          |
|           | 소 음 ( dBA ) :                         | 50 ~ 90          |

|                     |                                                    |
|---------------------|----------------------------------------------------|
| ◆ Cooler 구성 및 재질    |                                                    |
| 방열판 ( Matrix ) :    | 아연도금 알루미늄 ( Aluminum Coated Zinc )                 |
| 팬날개 ( Fan Blade ) : | Aluminum,Steel,Fiber-gress Reinforced polypropylen |
| Fan Hub :           | Aluminum,Steel                                     |
| Fan Housing :       | Steel                                              |
| Fan Guard :         | Steel, Fiber-gress Reinforced polypropylen         |
| Electric Motor :    | 에폭시 플라스틱 분체도장                                      |

|                                   |         |
|-----------------------------------|---------|
| ◆ 방열판 ( Matrix ) 사양               |         |
| Max Working Pressure ( Barg ) :   | 15, 21. |
| Max Oil Inlet Temperature ( ℃ ) : | 120     |
| Heat Transfer Tolerance :         | ± 6 %   |

|                      |                           |
|----------------------|---------------------------|
| ◆ 사용 오일 종류           |                           |
| Mineral Oil :        | HL / HLP ( DIN 51524 )    |
| Oil Water Emulsion : | HFA, HFB ( CETOP RP 77H ) |
| Water Glycol :       | HFC ( CETOP RP 77 )       |
| Phosphate Ester :    | HFD-R ( CETOP RP 77 H )   |

|                     |                                  |
|---------------------|----------------------------------|
| ◆ ELETRIC MOTOR 사양  |                                  |
| Single-Phase / 단상 / | 110V - 50/60 Hz                  |
|                     | 220V-50/60 Hz                    |
|                     | Insulation Class B               |
|                     | Temperature Rise Class B         |
|                     | Explosion Protection Degree IP54 |

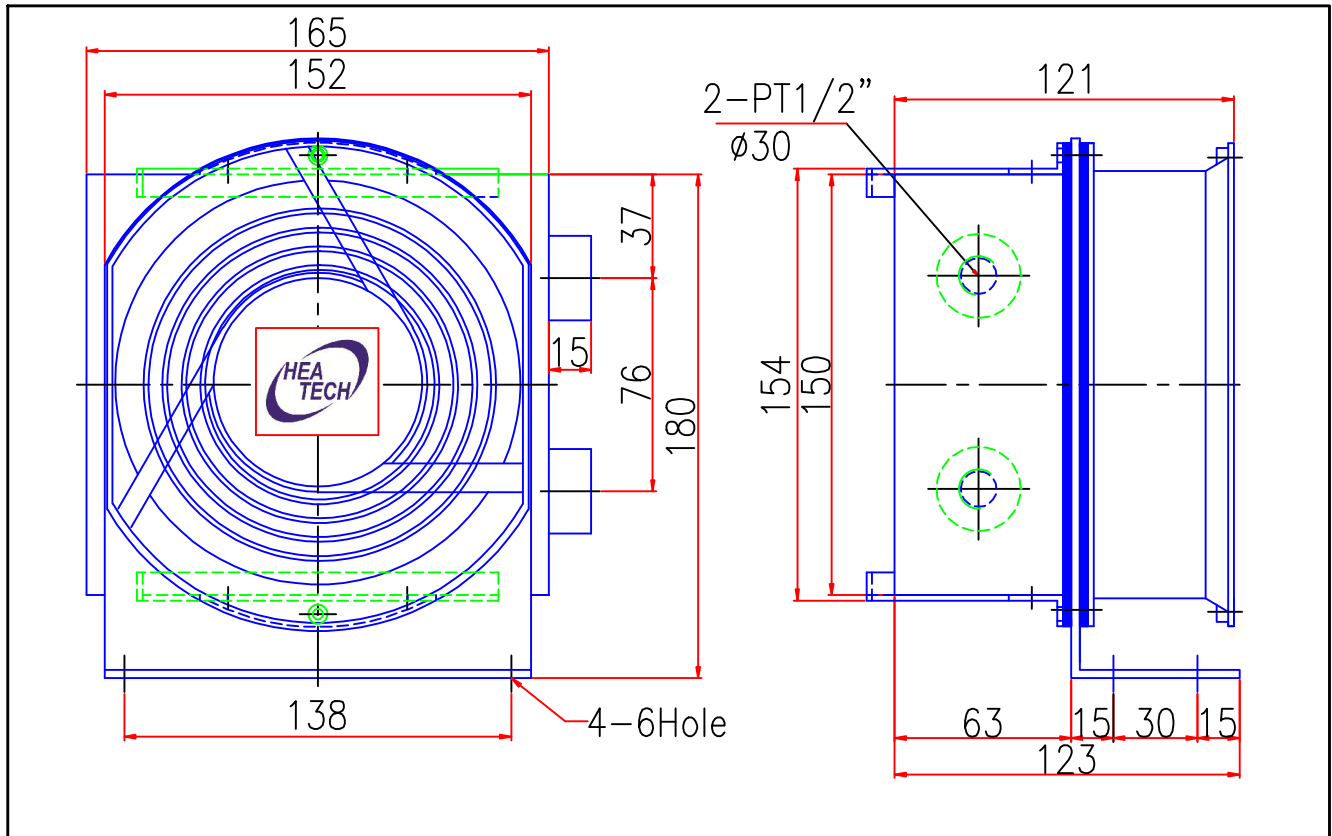
|                    |                                  |
|--------------------|----------------------------------|
| Three-Phase / 삼상 / | 220/380 V - 60 Hz                |
|                    | 230/440V - 50/60 Hz              |
|                    | Insulation Class F               |
|                    | Temperature Rise Class B         |
|                    | Explosion Protection Degree IP54 |

|          |                                  |
|----------|----------------------------------|
| DC - 12V |                                  |
|          | 3060RPM 3A                       |
|          | Insulation Class H               |
|          | Ambient Temp - 30℃ ~ 80℃         |
|          | Explosion Protection Degree IP67 |

|          |                                  |
|----------|----------------------------------|
| DC - 24V |                                  |
|          | 3060RPM 6A                       |
|          | Insulation Class H               |
|          | Ambient Temp - 30℃ ~ 80℃         |
|          | Explosion Protection Degree IP67 |



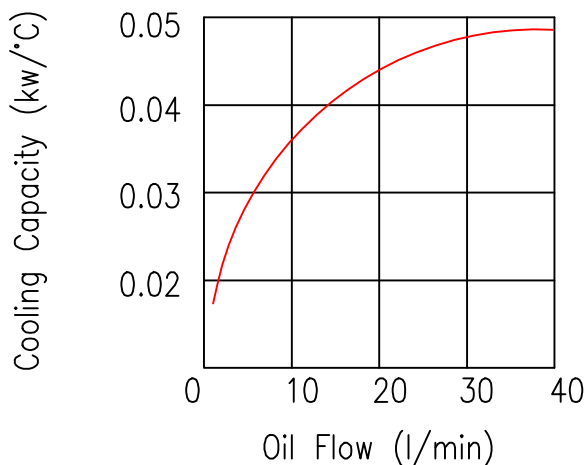
# Heatech 015 (Air Oil Cooler Unit)



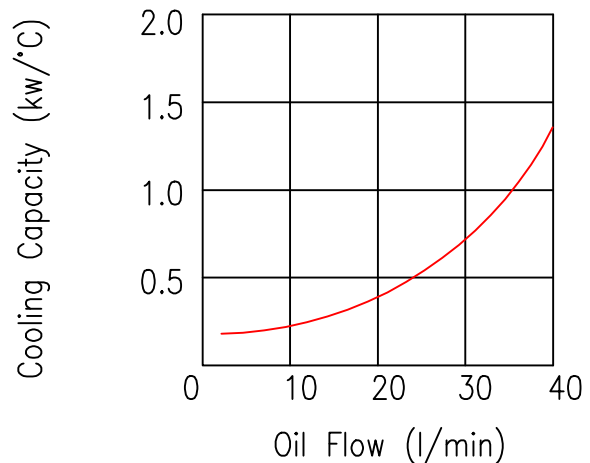
## Heatech 015 -2 Basic Specifications

- 1.Designation : Heatech 015(AC,1PHASE,35W 26A 3100RPM 220V,50/60Hz)
- 2.Maximum Working Pressure : 15.0 bar
- 3.Maximum Oil Flow : 5~45 liter/min
- 4.Cooling Capacity( $\Delta T: 40^\circ\text{C}$ ) : 1,200 kcal/h
- 5.Maximum Oil Inlet Temperature :  $120^\circ\text{C}$
- 6.Weight : 3Kg
- 7.Thickness : 3t

### Heatech 015 Cooling Capacity

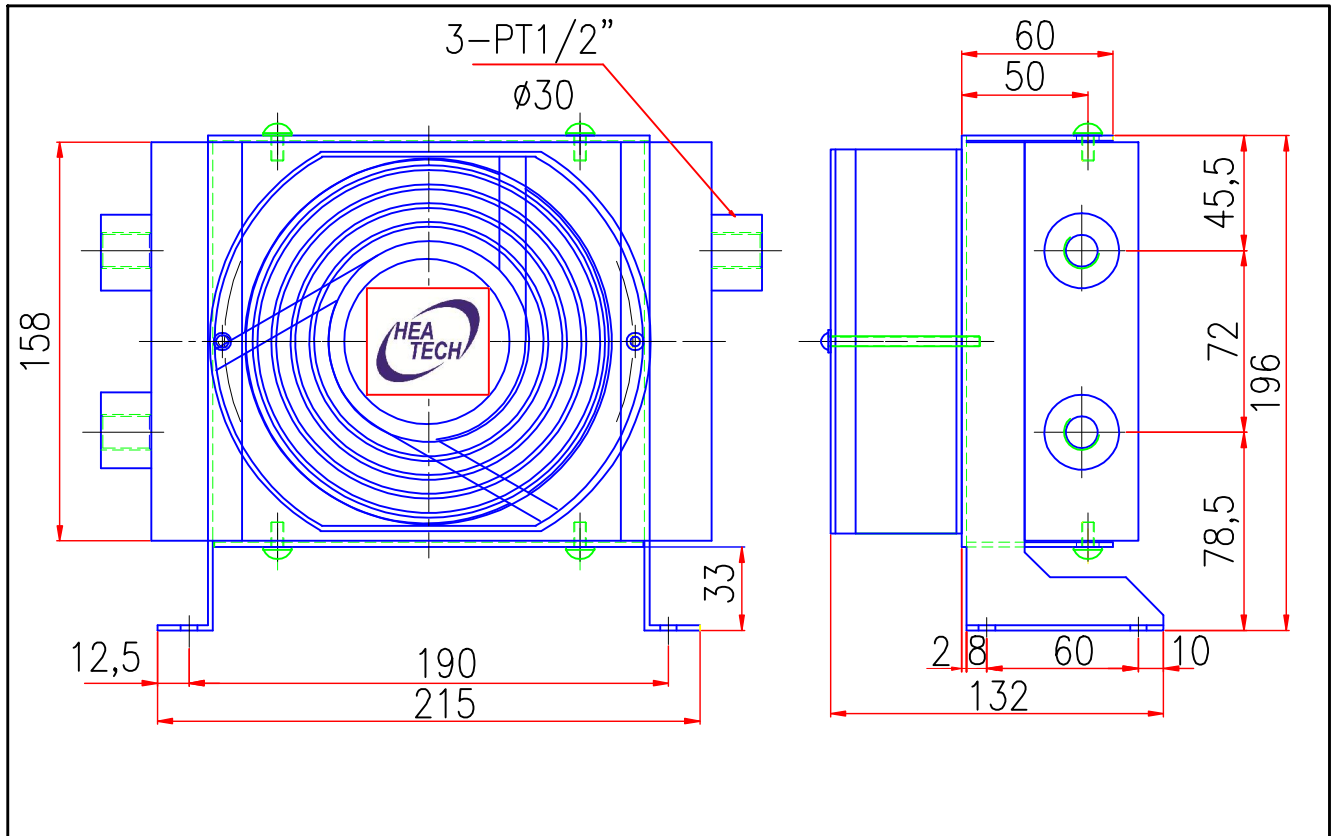


### Heatech 015 Pressure Drop at 30cSt





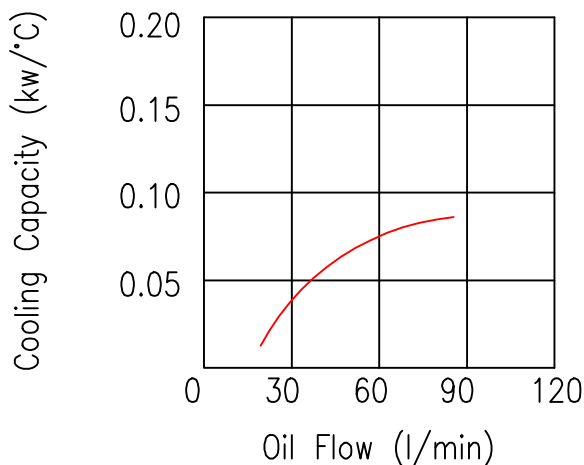
# Heatech 02 (Air Oil Cooler Unit)



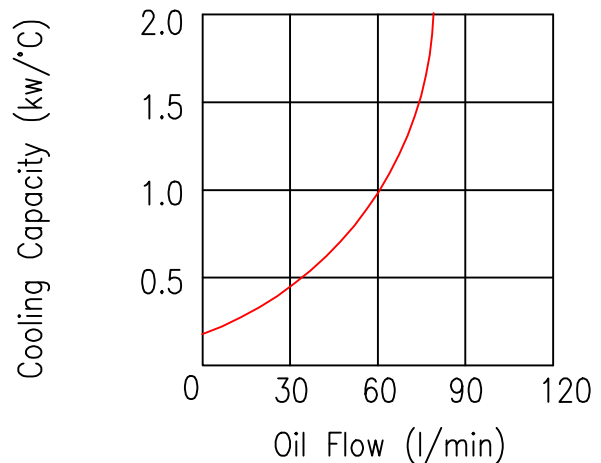
## Heatech 02 - 2 Basic Specifications

- 1.Designation : Heatech02-2(AC,1PHASE,35W 0.26A 3100RPM 220V,60Hz)
- 2.Maximum Working Pressure : 15.0 bar
- 3.Maximum Oil Flow : 20~80 liter/min
- 4.Cooling Capacity( $\Delta T: 40^\circ\text{C}$ ) : 2380 kcal/h
- 5.Maximum Oil Inlet Temperature :  $120^\circ\text{C}$
- 6.Weight : 5Kg
- 7.Thickness : 2t

### Heatech 02 Cooling Capacity

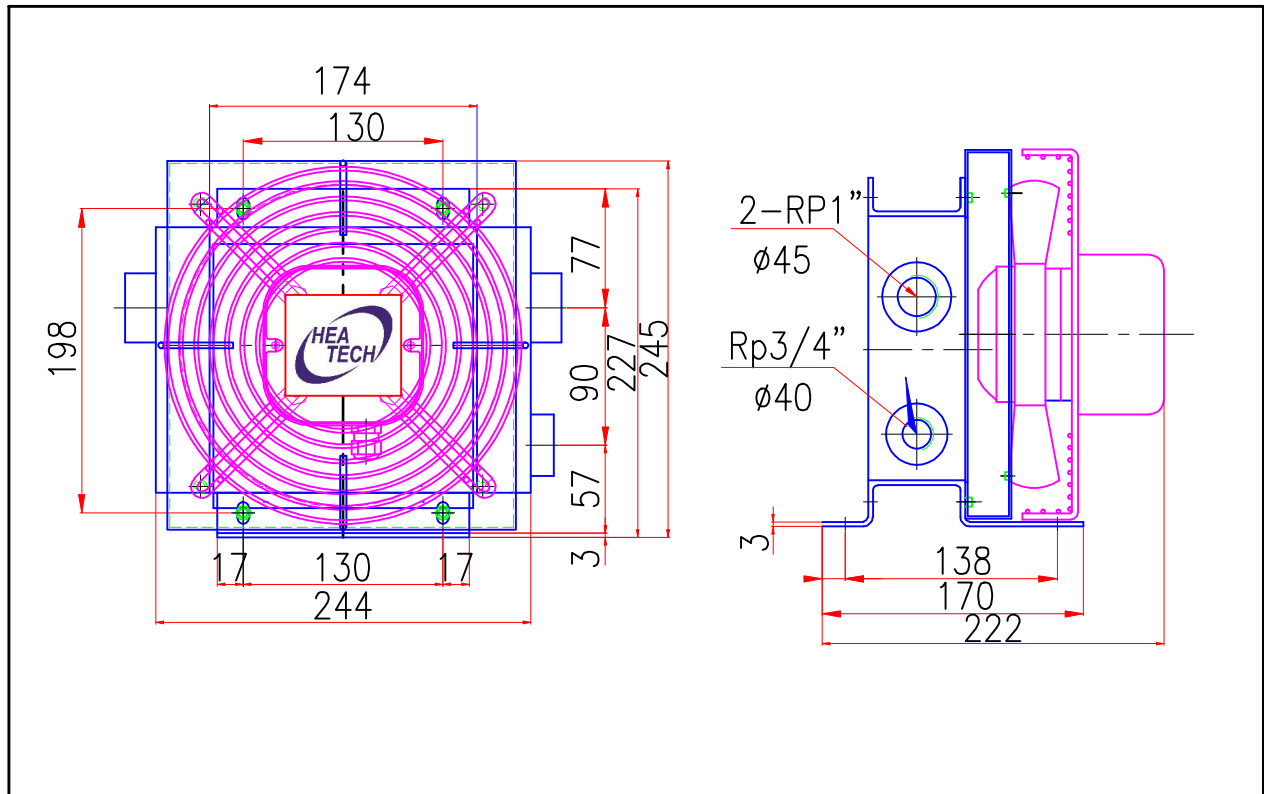


### Heatech 03 Pressure Drop at 30cSt





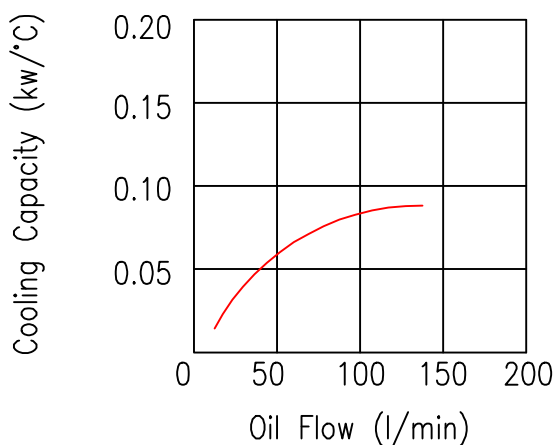
# Heatech 03 (Air Oil Cooler Unit)



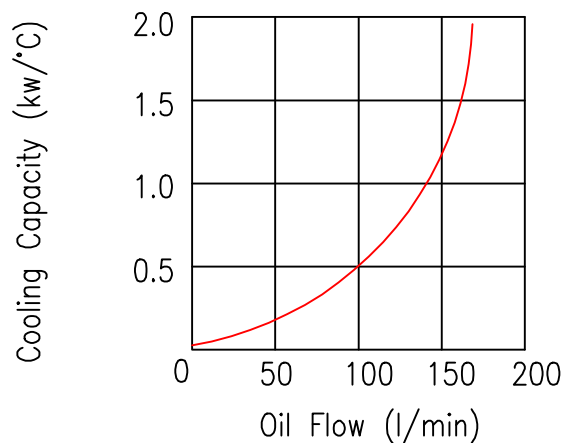
## Heatech 03 - 2 Basic Specifications

- 1.Designation : Heatech03-2(AC,1PHASE,67W 0.31A 2700RPM 220V,60Hz)
- 2.Maximum Working Pressure : 15.0 bar
- 3.Maximum Oil Flow : 40~100 liter/min
- 4.Cooling Capacity( $\Delta T: 40^{\circ}\text{C}$ ) : 2880 kcal/h
- 5.Maximum Oil Inlet Temperature :  $120^{\circ}\text{C}$
- 6.Weight : 7.8Kg
- 7.Thickness : 1.2t

### Heatech03 Cooling Capacity

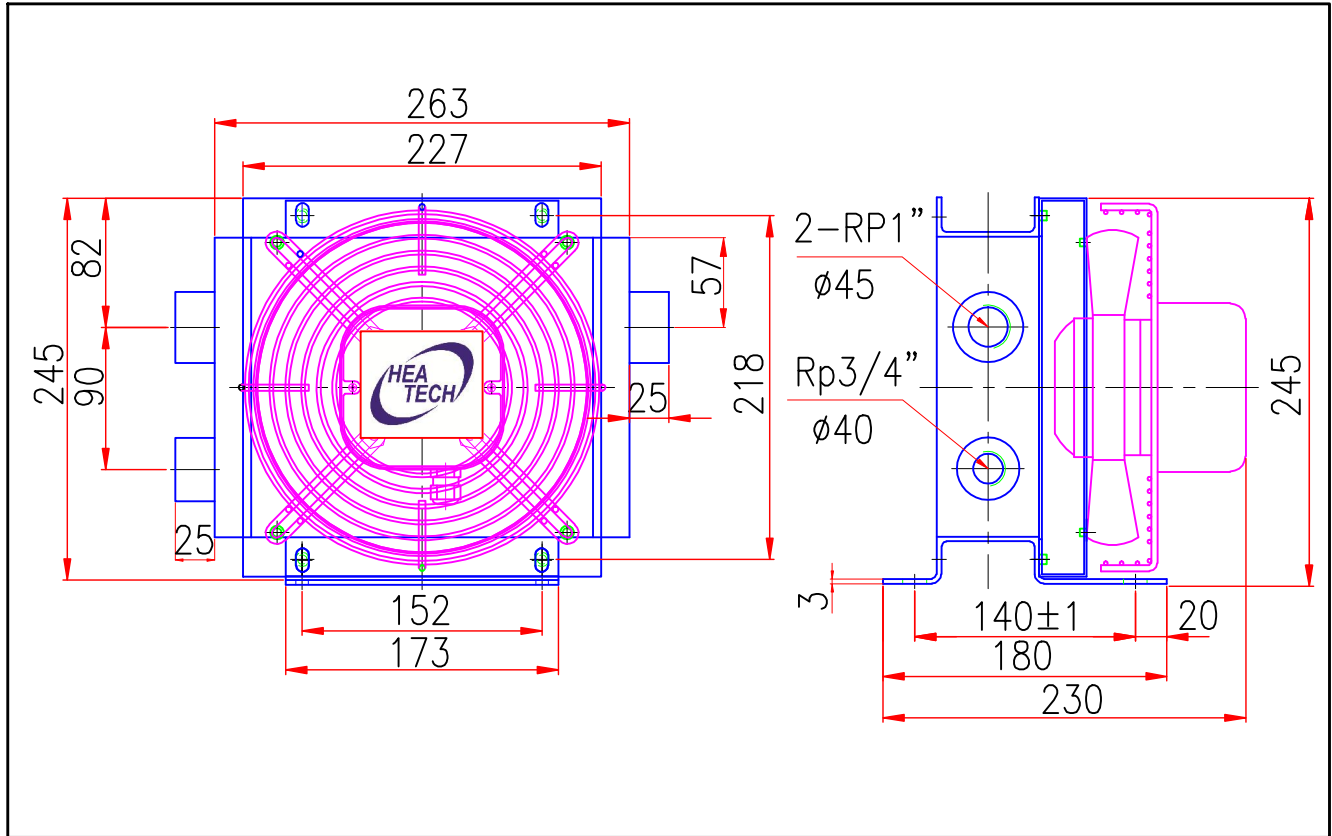


### Heatech03 Pressure Drop at 30cSt





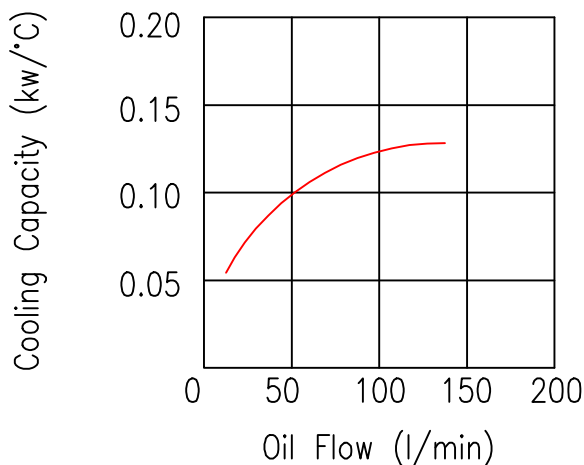
# Heatech 04 (Air Oil Cooler Unit)



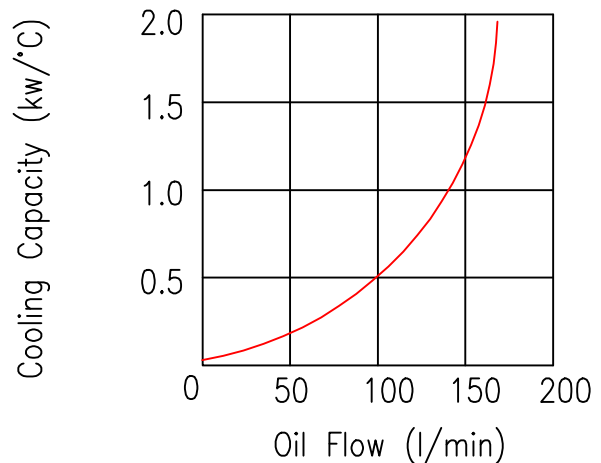
## Heatech 04 - 2 Basic Specifications

- 1.Designation : Heatech04-2(AC,1PHASE,67W 0.31A 2700RPM 220V,50/60Hz)
- 2.Maximum Working Pressure : 15.0 bar
- 3.Maximum Oil Flow : 60~100 liter/min
- 4.Cooling Capacity( $\Delta T: 40^\circ\text{C}$ ) : 3980 kcal/h
- 5.Maximum Oil Inlet Temperature :  $120^\circ\text{C}$
- 6.Weight : 9.1Kg
- 7.Thickness : 1.2t

### Heatech 04 Cooling Capacity

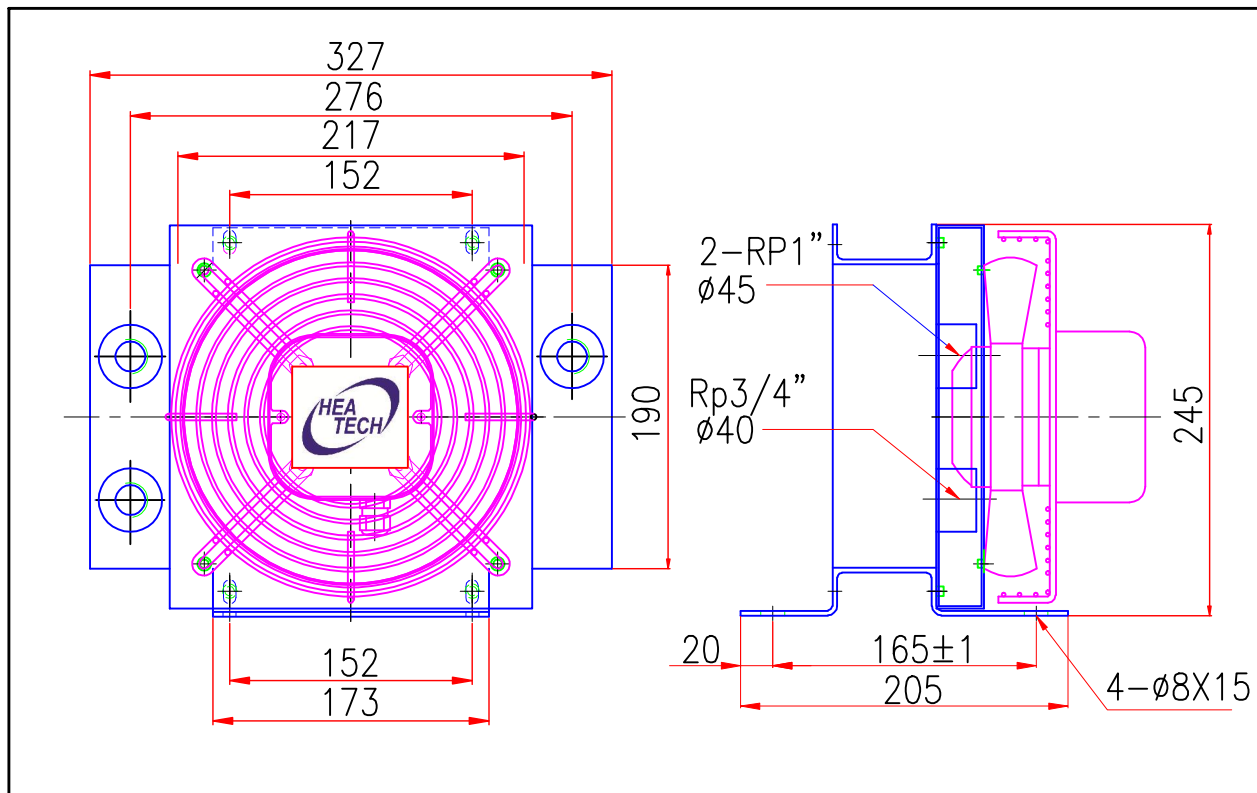


### Heatech 04 Pressure Drop at 30cSt





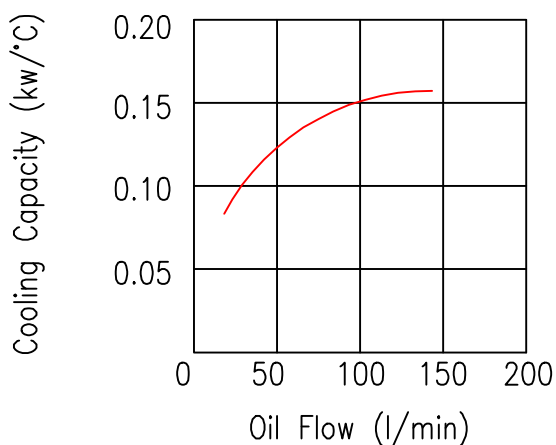
# Heatech 05 (Air Oil Cooler Units)



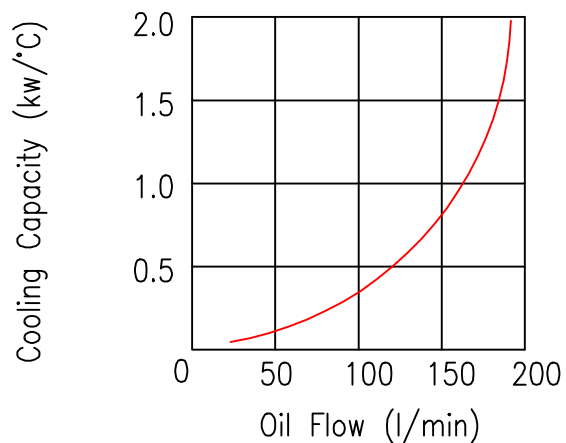
## Heatech 05 - 2 Basic Specifications

- 1.Designation : Heatech05-2(AC,1PHASE,67W 0.31A 2700RPM 220V,50/60Hz)
- 2.Maximum Working Pressure : 21.0 bar
- 3.Maximum Oil Flow : 60~120 liter/min
- 4.Cooling Capacity( $\Delta T: 40^\circ\text{C}$ ) : 4880 kcal/h
- 5.Maximum Oil Inlet Temperature :  $120^\circ\text{C}$
- 6.Weight : 10Kg
- 7.Thickness : 1.2t

### Heatech 05 Cooling Capacity



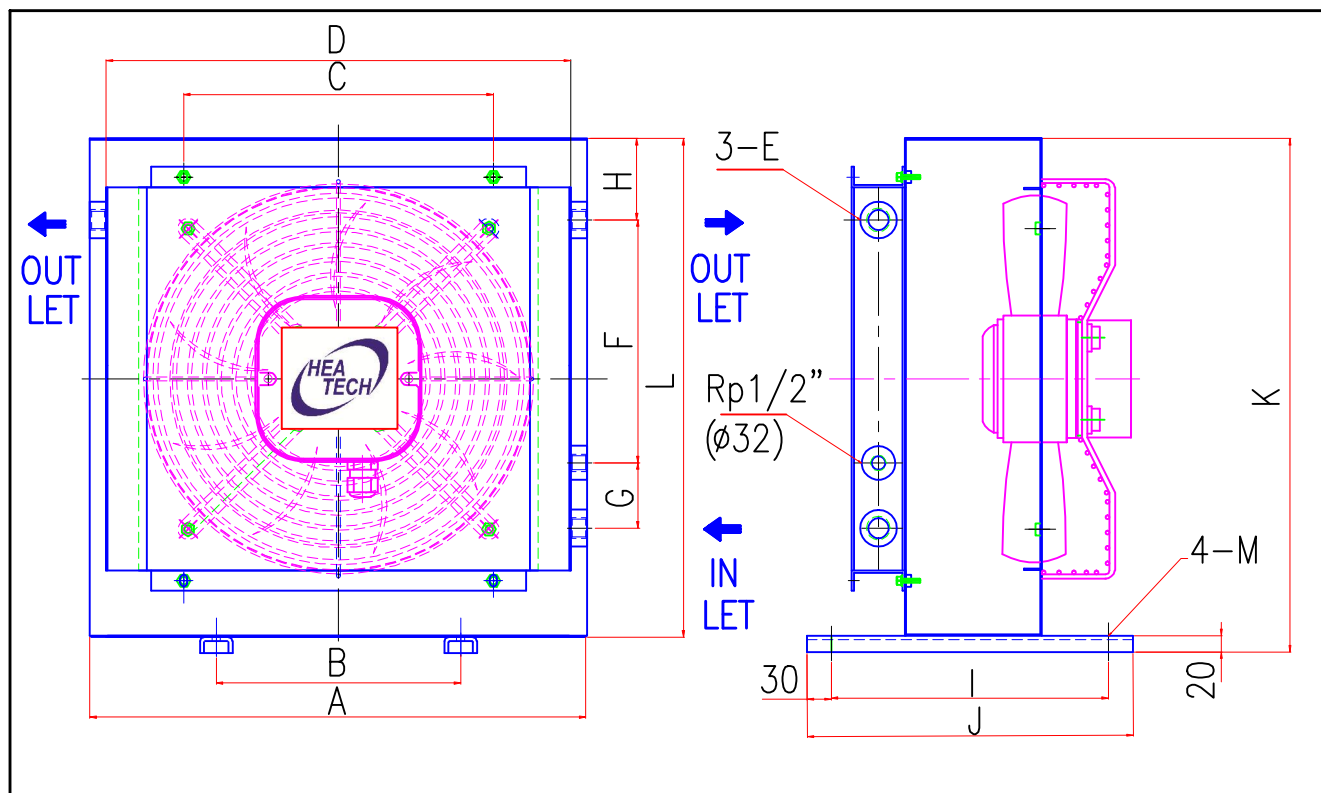
### Heatech 05 Pressure Drop at 30cSt





# Heatech 07 ~Heatech110

## < AC Fan Motor Air Oil Cooler Units >



### Basic Specifications

| TYPE       | A    | B   | C   | D    | E       | F   | G  | H    | I   | J   | K    | L    | M      |
|------------|------|-----|-----|------|---------|-----|----|------|-----|-----|------|------|--------|
| Heatech07  | 384  | 200 | 224 | 344  | G 1"    | 80  | 80 | 96   | 244 | 304 | 450  | 430  | Ø10x20 |
| Heatech11  | 470  | 270 | 240 | 430  | G 1"    | 148 | 80 | 111  | 270 | 330 | 500  | 480  | Ø10x20 |
| Heatech16  | 526  | 286 | 296 | 486  | G 1"    | 216 | 80 | 105  | 310 | 370 | 596  | 576  | Ø10x20 |
| Heatech23  | 608  | 300 | 380 | 570  | G 1"    | 298 | 80 | 100  | 340 | 400 | 620  | 600  | Ø10x20 |
| Heatech33  | 710  | 356 | 450 | 660  | G1 1/4" | 406 | 80 | 105  | 420 | 480 | 745  | 725  | Ø14x20 |
| Heatech44  | 685  | 356 | 384 | 633  | G1 1/4" | 584 | 80 | 74   | 420 | 480 | 830  | 810  | Ø14x20 |
| Heatech56  | 850  | 420 | 520 | 800  | G1 1/4" | 584 | 81 | 97.5 | 440 | 500 | 883  | 863  | Ø14x20 |
| Heatech76  | 958  | 500 | 705 | 958  | G1 1/2" | 738 | 81 | 92   | 450 | 510 | 1037 | 1017 | Ø14x20 |
| Heatech110 | 1164 | 600 | 912 | 1164 | G 2"    | 901 | 81 | 92   | 500 | 560 | 1216 | 1196 | Ø20x30 |



# Heatech03 ~110 Basic Specifications

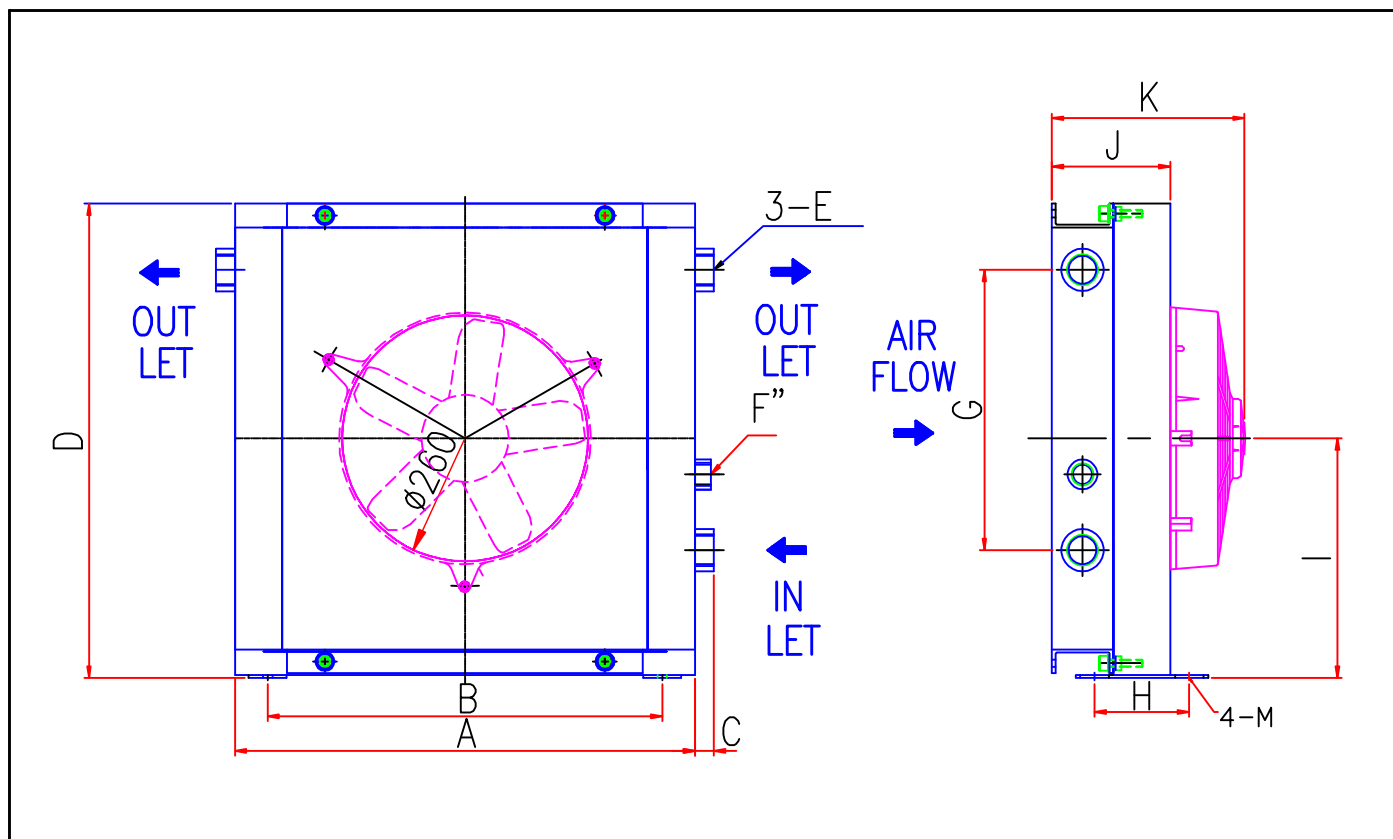
| MODEL        | Electric Fan Motor 사양 |       |         |          |       |      | Cooler   | (Weight) |
|--------------|-----------------------|-------|---------|----------|-------|------|----------|----------|
|              | Pole                  | Power | Hz      | Volt     | phase | Rpm  | Capacity | Kg       |
| Heat03~Hea05 | 2                     | 67W   | 50/60Hz | 220V     | 1     | 2700 |          |          |
|              | 2                     | 50W   | 50/60Hz | 110V     | 1     | 2700 |          |          |
|              | 2                     | 50W   | 60Hz    | 230/400V | 3     | 2650 |          |          |
| Heatech07    | 2                     | 116W  | 50/60Hz | 230/400V | 3     | 2550 | 7420     | 16.5KG   |
|              | 4                     | 55W   | 50/60Hz | 230/400V | 3     | 1620 | 6190     | 16.5KG   |
|              | 4                     | 58W   | 60Hz    | 460V     | 3     | 1620 | 6190     | 16.5KG   |
| Heatech11    | 4                     | 120W  | 50/60Hz | 230/400V | 3     | 1550 | 10660    | 23KG     |
|              | 4                     | 135W  | 60Hz    | 460V     | 3     | 1550 | 10660    | 23KG     |
| Heatech16    | 4                     | 250W  | 50/60Hz | 230/400V | 3     | 1480 | 17890    | 30KG     |
|              | 4                     | 265W  | 60Hz    | 460V     | 3     | 1480 | 17890    | 30KG     |
| Heatech23    | 4                     | 350W  | 50/60Hz | 230/400V | 3     | 1600 | 26830    | 38KG     |
|              | 4                     | 380W  | 60Hz    | 460V     | 3     | 1600 | 26830    | 38KG     |
| Heatech33    | 4                     | 620W  | 50/60Hz | 230/400V | 3     | 1520 | 48160    | 52KG     |
|              | 4                     | 640W  | 60Hz    | 460V     | 3     | 1520 | 48160    | 52KG     |
| Heatech44    | 4                     | 530W  | 60Hz    | 230/400V | 3     | 1520 | 58480    | 68KG     |
|              | 4                     | 550W  | 50/60Hz | 460V     | 3     | 1520 | 58480    | 68KG     |
| Heatech56    | 4                     | 800W  | 50/60Hz | 230/400V | 3     | 1520 | 72240    | 85KG     |
|              | 4                     | 850W  | 60Hz    | 460V     | 3     | 1520 | 72240    | 85KG     |
| Heatech76    | 4                     | 1000W | 50/60Hz | 230/400V | 3     | 1520 | 92880    | 114Kg    |
|              | 4                     | 1000W | 60Hz    | 460V     | 3     | 1520 | 92880    | 114Kg    |
|              | 6                     | 850W  | 50/60Hz | 230/400V | 3     | 1020 | 81260    | 114Kg    |
|              | 6                     | 850W  | 60Hz    | 460V     | 3     | 1020 | 81260    | 114Kg    |
| Heatech110   | 6                     | 1400W | 50/60Hz | 230/400V | 3     | 1020 | 130720   | 152Kg    |
|              | 6                     | 1400W | 60Hz    | 460V     | 3     | 1020 | 130720   | 152Kg    |

Heatech Air cooler Motor CEMEP 고효율 등급 사용하여 IE국제규격기준에도 적합합니다.



# Heatech 07 ~ Heatech33

## < DC 12V,24V Air Oil Cooler Units >



### Basic Specifications

| TYPE      | A   | B   | C  | D   | E       | F      | G   | H   | I   | J   | K   | L   | M       |
|-----------|-----|-----|----|-----|---------|--------|-----|-----|-----|-----|-----|-----|---------|
| Heatech07 | 344 | 300 | 20 | 355 | G 1"    | G 1/2" | 160 | 100 | 183 | 125 | 205 | —   | Ø 10x30 |
| Heatech11 | 430 | 417 | 20 | 405 | G 1"    | G 1/2" | 228 | 100 | 205 | 125 | 205 | —   | Ø 10x30 |
| Heatech16 | 486 | 417 | 20 | 501 | G 1"    | G 1/2" | 296 | 100 | 253 | 125 | 205 | —   | Ø 10x30 |
| Heatech23 | 570 | 356 | 20 | 520 | G 1"    | G 1/2" | 378 | 290 | 170 | 165 | 245 | 370 | Ø 10x30 |
| Heatech33 | 660 | 356 | 20 | 650 | G1 1/4" | G 1/2" | 486 | 290 | 200 | 165 | 245 | 470 | Ø 10x30 |