



# PROVAC

## SALES

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## Pfeiffer DUO 5, DUO 5M

### Technical Specifications

|  | Duo 5 M, 1-phase motor, 200–240 V, 50 Hz   208–240 V, 60 Hz  |
|--|--|
| Flange (in)  | DN 16 ISO-KF   |
| Flange (out)   | DN 16 ISO-KF   |
| Pumping speed at 50 Hz                                     | 5 m <sup>3</sup> /h   2.94 cfm   83.33 l/min   |
| Pumping speed at 60 Hz                                     | 6 m <sup>3</sup> /h   3.53 cfm   100 l/min   |
| Ultimate pressure with gas ballast                         | 7 · 10 <sup>-3</sup> hPa   5.25 · 10 <sup>-3</sup> Torr   7 · 10 <sup>-3</sup> mbar                                  |
| Ultimate pressure without gas ballast                      | 4 · 10 <sup>-3</sup> hPa   3 · 10 <sup>-3</sup> Torr   4 · 10 <sup>-3</sup> mbar                                     |
| Exhaust pressure, max.                                     | 1,500 hPa   1,125 Torr   1,500 mbar  |
| Exhaust pressure, min.                                     | 250 hPa   187.5 Torr   250 mbar  |
| Rotation speed at 50 Hz                                    | 1,500 rpm   1,500 min <sup>-1</sup>  |
| Rotation speed at 60 Hz                                    | 1,800 rpm   1,800 min <sup>-1</sup>  |
| Cooling method, standard                                   | Air  |
| Motor protection   | Bimetal  |
| Motor version  | 1-ph motor   |
| Ambient temperature  | 12-40 °C   53.6-104 °F   285-313 K   |
| Emission sound pressure level without gas ballast at 50 Hz | ≤ 57 dB(A)   |
| Switch   | Yes  |
| Mains requirement: voltage (range)                         | ±5 %   |
| Mains requirement: voltage 50 Hz                           | 200 – 240 V  |
| Mains requirement: voltage 60 Hz                           | 208 – 240 V  |
| Mains cable  | Yes  |
| Operating fluid  | P3   |
| Operating fluid filling                                    | 0.75 l   |
| Leak rate safety valve                                     | ≤ 1 · 10 <sup>-5</sup> Pa m <sup>3</sup> /s   ≤ 7.5 · 10 <sup>-5</sup> Torr l/s  <br>≤ 1 · 10 <sup>-4</sup> mbar l/s |
| Rated power 50 Hz  | 0.37 kW  |
| Rated power 60 Hz  | 0.37 kW  |
| Protection category  | IP55   |
| Magnetic coupling  | Yes  |
| Weight   | 25 kg   55.12 lb   |



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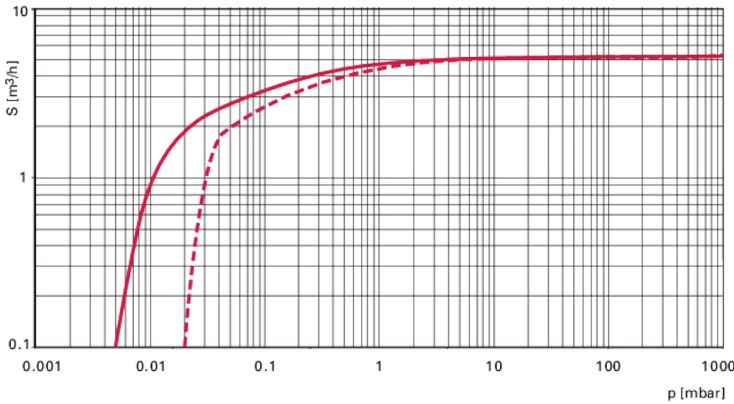
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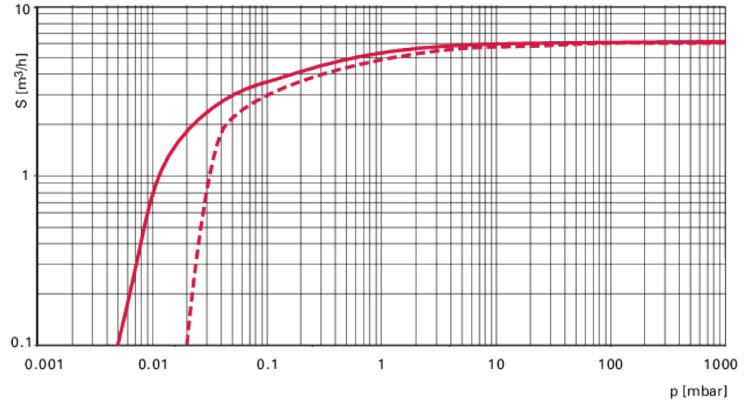
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# Pfeiffer DUO 5, DUO 5M Pumping Curves

### 50Hz

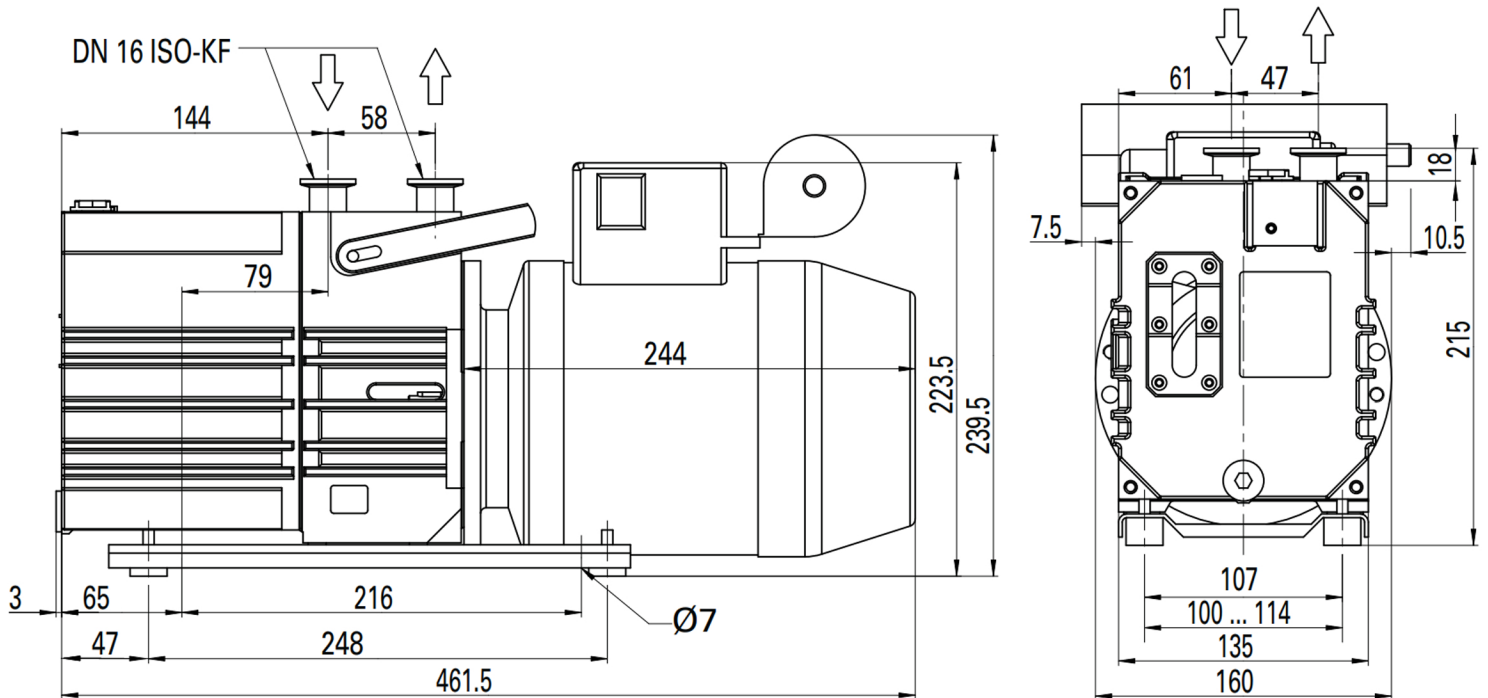


### 60Hz



— without gas ballast  
- - - with gas ballast

## Dimensions





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## Pfeiffer DUO 5, DUO 5M Features & Benefits

- two stage rotary vane pump
- integrated gas ballast & HV safety valve
- magnetically coupled
- long service life
- clean & environmentally friendly
- various motor voltages for worldwide employment
- integrated, hydraulically controlled high-vacuum safety valve
- compact design & optimized cooling make for great system integration
- integrated connection for oil return simplifies retrofitting of oil mist filter

## Applications

- low & medium vacuum • backing pump for turbo & roots • general laboratory use • analytics • chemical laboratory • freeze drying
- process engineering

