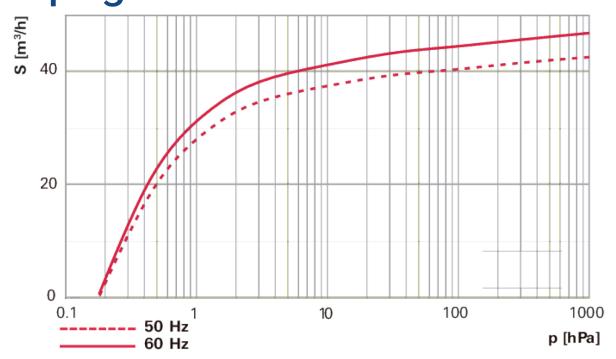
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Pfeiffer Hena 41 **Technical Specifications**

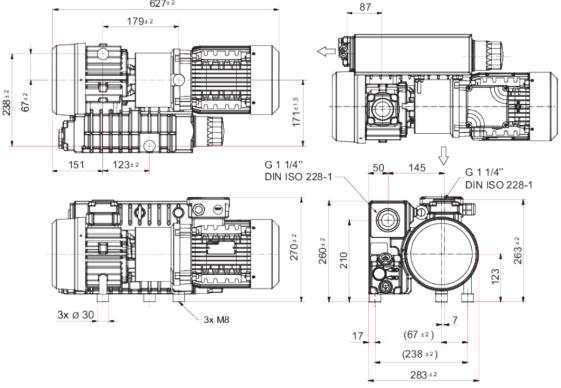
| Ambient temperature 12-40 °C 53.6-104 °F 285-313 K Cooling method, standard Air Dimensions (L x W x H) 629 x 285 x 272 mm 24.76 x 11.22 x 10.71 inch Emission sound pressure level without gas ballast at 50 Hz Emission sound pressure level without gas ballast at 60 Hz Exhaust pressure, max. Atmospheric pressure Exhaust pressure, min. Atmospheric pressure Flange (in) Female thread G 11/4" Flange (out) Female thread G 11/4" Inert gas unit No Leak rate safety valve ≤ 8 ⋅ 10-3 Pa m³/s Mains cable No Mains requirement: voltage (range) ±5 % Mains requirement: voltage 50 Hz 190-200/380-400 V Mains requirement: voltage 60 Hz 208/220/230/440/460 V Motor protection 3TF Motor version 3-ph motor Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid filling 11 Protection category IP55 | | |
|---|---------------------------------------|---|
| Cooling method, standard Air Dimensions (L x W x H) 629 x 285 x 272 mm 24.76 x 11.22 x 10.71 inch Emission sound pressure level without gas ballast at 50 Hz ≤ 63 dB(A) Emission sound pressure level without gas ballast at 60 Hz ≤ 66 dB(A) Exhaust pressure, max. Atmospheric pressure Exhaust pressure, min. Atmospheric pressure Flange (in) Female thread G 1½" Flange (out) Female thread G 1½" Inert gas unit No Leak rate safety valve ≤ 8 · 10-³ Pa m³/s Mains cable No Mains requirement: voltage (range) ±5 % Mains requirement: voltage 50 Hz 190-200/380-400 V Mains requirement: voltage 60 Hz 208/220/230/440/460 V Motor protection 3TF Motor version 3-ph motor Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid filling 1 I Protection category IP55 | Ambient temperature | Hena 41 12-40 °C 53.6-104 °F 285-313 K |
| Dimensions (L x W x H) 629 x 285 x 272 mm 24.76 x 11.22 x 10.71 inch Emission sound pressure level without gas ballast at 50 Hz Emission sound pressure level without gas ballast at 60 Hz Exhaust pressure, max. Atmospheric pressure Exhaust pressure, min. Female thread G 1½" Flange (in) Female thread G 1½" Flange (out) Inert gas unit Leak rate safety valve Mains cable No Mains requirement: voltage (range) Mains requirement: voltage 50 Hz Motor protection Motor version Nominal pumping speed at 50 Hz Nominal pumping speed at 60 Hz Operating fluid P3 Operating fluid filling Protection category P 63 dB(A) Atmospheric pressure 64 dB(A) Atmospheric pressure Female thread G 1½" Female threa | • | · |
| ballast at 50 Hz Emission sound pressure level without gas ballast at 60 Hz Exhaust pressure, max. Atmospheric pressure Exhaust pressure, min. Atmospheric pressure Exhaust pressure, min. Atmospheric pressure Flange (in) Female thread G 1½" Flange (out) Female thread G 1½" Inert gas unit No Leak rate safety valve ≤ 8 ⋅ 10⁻³ Pa m³/s Mains cable No Mains requirement: voltage (range) ±5 % Mains requirement: voltage 50 Hz 190−200/380−400 V Mains requirement: voltage 60 Hz 208/220/230/440/460 V Motor protection 3TF Motor version 3-ph motor Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid Operating fluid filling 11 Protection category IP55 | · · · · · · · · · · · · · · · · · · · | 629 x 285 x 272 mm |
| ballast at 60 Hz Exhaust pressure, max. Atmospheric pressure Exhaust pressure, min. Atmospheric pressure Flange (in) Female thread G 1½" Flange (out) Female thread G 1½" Inert gas unit No Leak rate safety valve ≤ 8 ⋅ 10⁻³ Pa m³/s Mains cable No Mains requirement: voltage (range) ±5 % Mains requirement: voltage 50 Hz 190−200/380−400 V Mains requirement: voltage 60 Hz 208/220/230/440/460 V Motor protection 3TF Motor version 3-ph motor Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid filling 11 Protection category IP55 | • | ≤ 63 dB(A) |
| Exhaust pressure, min. Flange (in) Female thread G 1½" Flange (out) Female thread G 1½" Inert gas unit No Leak rate safety valve ≤ 8 ⋅ 10⁻³ Pa m³/s Mains cable No Mains requirement: voltage (range) ±5 % Mains requirement: voltage 50 Hz 190−200/380−400 V Mains requirement: voltage 60 Hz 208/220/230/440/460 V Motor protection 3TF Motor version Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid P3 Operating fluid filling 1 I Protection category IP55 | • | ≤ 66 dB(A) |
| Flange (in) Female thread G 1¼" Flange (out) Inert gas unit No Leak rate safety valve ≤ 8 ⋅ 10⁻³ Pa m³/s Mains cable No Mains requirement: voltage (range) Mains requirement: voltage 50 Hz Mains requirement: voltage 60 Hz Motor protection 3TF Motor version Nominal pumping speed at 50 Hz Nominal pumping speed at 60 Hz Ab m³/h Operating fluid Operating fluid filling 1 I Protection category Female thread G 1¼" Female thread G 1½ Female thread G 1¼" Female thread G 1½ Female thread | Exhaust pressure, max. | Atmospheric pressure |
| Flange (out) Inert gas unit Leak rate safety valve ≤8 · 10⁻³ Pa m³/s Mains cable No Mains requirement: voltage (range) Mains requirement: voltage 50 Hz Mains requirement: voltage 60 Hz Motor protection Motor version Nominal pumping speed at 50 Hz Nominal pumping speed at 60 Hz Operating fluid P3 Operating fluid filling 1 I Protection category Female thread G 1¼¹' No No No A No No A No A No A No A A No A No A A A No A A A No A A A A A A A A A A A A A | Exhaust pressure, min. | Atmospheric pressure |
| Inert gas unitNoLeak rate safety valve≤ 8 ⋅ 10-3 Pa m³/sMains cableNoMains requirement: voltage (range)±5 %Mains requirement: voltage 50 Hz190-200/380-400 VMains requirement: voltage 60 Hz208/220/230/440/460 VMotor protection3TFMotor version3-ph motorNominal pumping speed at 50 Hz40 m³/hNominal pumping speed at 60 Hz48 m³/hOperating fluidP3Operating fluid filling1 IProtection categoryIP55 | Flange (in) | Female thread G 11/4" |
| Leak rate safety valve≤ 8 ⋅ 10-3 Pa m³/sMains cableNoMains requirement: voltage (range)±5 %Mains requirement: voltage 50 Hz190-200/380-400 VMains requirement: voltage 60 Hz208/220/230/440/460 VMotor protection3TFMotor version3-ph motorNominal pumping speed at 50 Hz40 m³/hNominal pumping speed at 60 Hz48 m³/hOperating fluidP3Operating fluid filling1 IProtection categoryIP55 | Flange (out) | Female thread G 11/4" |
| Mains cable Mains requirement: voltage (range) Mains requirement: voltage 50 Hz Mains requirement: voltage 50 Hz Motor protection Motor version Nominal pumping speed at 50 Hz Nominal pumping speed at 60 Hz Operating fluid Protection category No Motor version No No No No No No No No No | Inert gas unit | No |
| Mains requirement: voltage (range) ±5 % Mains requirement: voltage 50 Hz 190–200/380–400 V Mains requirement: voltage 60 Hz 208/220/230/440/460 V Motor protection 3TF Motor version 3-ph motor Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid P3 Operating fluid filling 1 I Protection category IP55 | Leak rate safety valve | ≤ 8 · 10 ⁻³ Pa m³/s |
| Mains requirement: voltage 50 Hz Mains requirement: voltage 60 Hz 208/220/230/440/460 V Motor protection 3TF Motor version Nominal pumping speed at 50 Hz Nominal pumping speed at 60 Hz 40 m³/h Nominal pumping speed at 60 Hz Operating fluid P3 Operating fluid filling 1 I Protection category IP55 | Mains cable | No |
| Mains requirement: voltage 60 Hz Motor protection 3TF Motor version 3-ph motor Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid P3 Operating fluid filling 1 I Protection category IP55 | Mains requirement: voltage (range) | ±5 % |
| Motor protection 3TF Motor version 3-ph motor Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid P3 Operating fluid filling 1 I Protection category IP55 | Mains requirement: voltage 50 Hz | 190-200/380-400 V |
| Motor version 3-ph motor Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid P3 Operating fluid filling 1 I Protection category IP55 | Mains requirement: voltage 60 Hz | 208/220/230/440/460 V |
| Nominal pumping speed at 50 Hz 40 m³/h Nominal pumping speed at 60 Hz 48 m³/h Operating fluid P3 Operating fluid filling 1 I Protection category IP55 | Motor protection | 3TF |
| Nominal pumping speed at 60 Hz 48 m³/h Operating fluid P3 Operating fluid filling 1 I Protection category IP55 | Motor version | 3-ph motor |
| Operating fluid P3 Operating fluid filling 1 I Protection category IP55 | Nominal pumping speed at 50 Hz | 40 m³/h |
| Operating fluid filling 1 I Protection category IP55 | Nominal pumping speed at 60 Hz | 48 m³/h |
| Protection category IP55 | Operating fluid | P3 |
| • • | Operating fluid filling | 11 |
| _ , , | Protection category | IP55 |
| Rated power 50 Hz 1.4 kW | Rated power 50 Hz | 1.4 kW |
| Rated power 60 Hz 1.7 kW | Rated power 60 Hz | 1.7 kW |
| Rotation speed at 50 Hz 1,500 rpm 1,500 min ⁻¹ | Rotation speed at 50 Hz | 1,500 rpm 1,500 min ⁻¹ |
| Rotation speed at 60 Hz 1,800 rpm 1,800 min ⁻¹ | Rotation speed at 60 Hz | 1,800 rpm 1,800 min ⁻¹ |
| Switch New No | Switch New | No |
| Ultimate pressure with gas ballast ≤ 1.5 hPa ≤ 1.12 Torr ≤ 1.5 mbar | Ultimate pressure with gas ballast | ≤ 1.5 hPa ≤ 1.12 Torr ≤ 1.5 mbar |
| Ultimate pressure without gas ballast $\leq 3 \cdot 10^{-1} \text{ hPa} \mid \leq 2.25 \cdot 10^{-1} \text{ Torr} \mid \\ \leq 3 \cdot 10^{-1} \text{ mbar}$ | Ultimate pressure without gas ballast | |
| Water vapor capacity 50 Hz 1100 g/h | Water vapor capacity 50 Hz | 1100 g/h |
| Water vapor capacity 60 Hz 1100 g/h | Water vapor capacity 60 Hz | 1100 g/h |
| Water vapor tolerance at 50 Hz 40 hPa 30 Torr 40 mbar | Water vapor tolerance at 50 Hz | 40 hPa 30 Torr 40 mbar |
| Water vapor tolerance at 60 Hz 40 hPa 30 Torr 40 mbar | Water vapor tolerance at 60 Hz | 40 hPa 30 Torr 40 mbar |
| Weight 49.5 kg 109.13 lb | Weight | 49.5 kg 109.13 lb |

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Pfeiffer Hena 41 **Pumping Curves**



Dimensions



PROVAC SALES, INC. 3131 SOQUEL DRIVE, SOQUEL CA 95073

Pfeiffer Hena 41
Features & Benefits

· can operate as stand alone pump, or integrated into pumping stations

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- integrated oil mist filter, oil return system & vacuum safety valve
- prevents pollution of ambient air & protects pump & system
- gas ballast valve enables water vapor to be pumped down
- · special vane material for long service life

Applications

- · electron beam welding · incandescent light bulb manufacturing
- surface coating vacuum drying leak detection metallurgy
- · gas recovery · load lock applications · simulation chambers

