



## Water-Sealed Full Recovery Technical Data Sheet (TRS & TRV) 1 – 10 HP

### Pump Assembly:

- ◆ Travaini base mounted liquid ring vacuum pump
- ◆ Heavy duty flexible coupling, requires no field alignment or lubrication
- ◆ NEMA C-face, TEFC, 3 phase, 60hz, 230/460 volt, class F, 1.15 service factor motor

### Sealing Fluid Recirculating System:

- ◆ Sealing fluid reservoir manufactured in carbon steel complete with sight level indicator, overflow and drain valve.
- ◆ Low liquid fluid gauge, float type
- ◆ Solenoid valve NEMA-4 make-up water
- ◆ Seal fluid heat exchanger (\*see specification below)
- ◆ Seal fluid in-line strainer complete with flow regulator, compound gauge and isolation valve
- ◆ Temperature gauge

**Sealing Fluid:** Water, Recommended cooling water 60°F

### Suction Line Accessories:

- ◆ Inlet check valve suitable for vacuum
- ◆ Vacuum gauge 0-30" Hg v fluid filled

### \*Heat Exchanger Specifications:

Type: Shell & Tube 10° approach

Materials: Copper tubes, steel shell

CUSTOMER TO SUPPLY 60° F WATER FOR COOLING

### Available Engineered options:

- ◆ Inlet filter (used for applications where a high carry-over of solids can be expected)
- ◆ Vacuum relief valve installed on pump suction (used to control maximum vacuum level)
- ◆ Flow switch
- ◆ Vibration mounts (Shipped Loose)

#### (These options will extend standard lead times)

- ◆ 460 Volts, 3 phase, and 6- hz control panel with the following components:

**Simplex:** Full voltage starter c/w overload, control transformer, stop/start button, pump running light, hour meter, mounted in NEMA 12 panel.

**Duplex:** Full voltage starters c/w overloads, one control transformer, two HOA switches, two running lights, two hour meters, auto alternation, frequent start protection, mounted in NEMA 12 panel. Two vacuum switches are also included.

For other available options contact factory.

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## Water-Sealed Full Recovery Technical Data Sheet (TRS & TRV) 15 -60 HP

### Pump Assembly:

- ◆ Travaini base mounted liquid ring vacuum pump
- ◆ Heavy duty flexible coupling, requires no field alignment or lubrication
- ◆ NEMA C-face, (Up to 20 HP), TEFC, 3 phase, 60hz, 230/460 volt, class F, 1.15 service factor motor

### Sealing Fluid Recirculating System:

- ◆ Sealing fluid reservoir manufactured in carbon steel complete with sight level indicator, overflow and drain valve.
- ◆ Low liquid fluid gauge, float type
- ◆ Solenoid valve NEMA-4 make-up water
- ◆ Seal fluid heat exchanger (\*see specification below)
- ◆ Seal fluid in-line strainer complete with flow regulator, compound gauge and isolation valve
- ◆ Temperature gauge

**Sealing Fluid:** Water, Recommended cooling water 60°F

### Suction Line Accessories:

- ◆ Inlet check valve suitable for vacuum
- ◆ Vacuum gauge 0-30" Hg v fluid filled

### \*Heat Exchanger Specifications:

Type: Shell & Tube 10° approach

Materials: Copper tubes, steel shell

CUSTOMER TO SUPPLY 60° F WATER FOR COOLING

### Available Engineered options:

- ◆ Inlet filter (used for applications where a high carry-over of solids can be expected)
- ◆ Vacuum relief valve installed on pump suction (used to control maximum vacuum level)
- ◆ Flow switch
- ◆ Vibration mounts (Shipped Loose)

#### (These options will extend standard lead times)

- ◆ 460 Volts, 3 phase, and 6- hz control panel with the following components:

**Simplex:** Full voltage starter c/w overload, control transformer, stop/start button, pump running light, hour meter, mounted in NEMA 12 panel.

**Duplex:** Full voltage starters c/w overloads, one control transformer, two HOA switches, two running lights, two hour meters, auto alternation, frequent start protection, mounted in NEMA 12 panel. Two vacuum switches are also included.

For other available options contact factory.

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## Water-Sealed Full Recovery Technical Data Sheet (TRH) 1 – 20 HP

### **Pump Assembly:**

- ◆ Travaini base mounted liquid ring vacuum pump
- ◆ Heavy duty flexible coupling, requires no field alignment or lubrication
- ◆ NEMA C-face, TEFC, 3 phase, 60hz, 230/460 volt, class F, 1.15 service factor motor

### **Sealing Fluid Recirculating System:**

- ◆ Sealing fluid reservoir manufactured in carbon steel complete with sight level indicator, overflow and drain valve.
- ◆ Low liquid fluid gauge, float type
- ◆ Solenoid valve NEMA-4 make-up water
- ◆ Seal fluid heat exchanger (\*see specification below)
- ◆ Seal fluid in-line strainer complete with flow regulator, compound gauge and isolation valve
- ◆ Temperature gauge

**Sealing Fluid:** Water, Recommended cooling water 60°F

### **Suction Line Accessories:**

- ◆ Inlet check valve suitable for vacuum
- ◆ Vacuum gauge 0-30" Hg v fluid filled

### **\*Heat Exchanger Specifications:**

Type: Shell & Tube 10° approach

Materials: Copper tubes, steel shell

CUSTOMER TO SUPPLY 60° F WATER FOR COOLING

### **Available Engineered options:**

- ◆ Inlet filter (used for applications where a high carry-over of solids can be expected)
- ◆ Vacuum relief valve installed on pump suction (used to control maximum vacuum level)
- ◆ Flow switch
- ◆ Vibration mounts (Shipped Loose)

#### **(These options will extend standard lead times)**

- ◆ 460 Volts, 3 phase, and 6- hz control panel with the following components:

**Simplex:** Full voltage starter c/w overload, control transformer, stop/start button, pump running light, hour meter, mounted in NEMA 12 panel.

**Duplex:** Full voltage starters c/w overloads, one control transformer, two HOA switches, two running lights, two hour meters, auto alternation, frequent start protection, mounted in NEMA 12 panel. Two vacuum switches are also included.

For other available options contact factory.

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## Water-Sealed Full Recovery Technical Data Sheet (TRH) 25 – 60 HP

### Pump Assembly:

- ◆ Travaini base mounted liquid ring vacuum pump
- ◆ Heavy duty flexible coupling, requires no field alignment or lubrication
- ◆ NEMA C-face, TEFC, 3 phase, 60hz, 230/460 volt, class F, 1.15 service factor motor

### Sealing Fluid Recirculating System:

- ◆ Sealing fluid reservoir manufactured in carbon steel complete with sight level indicator, overflow and drain valve.
- ◆ Low liquid fluid gauge, float type
- ◆ Solenoid valve NEMA-4 make-up water
- ◆ Seal fluid heat exchanger (\*see specification below)
- ◆ Seal fluid in-line strainer complete with flow regulator, compound gauge and isolation valve
- ◆ Temperature gauge

**Sealing Fluid:** Water, Recommended cooling water 60°F

### Suction Line Accessories:

- ◆ Inlet check valve suitable for vacuum
- ◆ Vacuum gauge 0-30" Hg v fluid filled

### \*Heat Exchanger Specifications:

Type: Shell & Tube 10° approach

Materials: Copper tubes, steel shell

CUSTOMER TO SUPPLY 60° F WATER FOR COOLING

### Available Engineered options:

- ◆ Inlet filter (used for applications where a high carry-over of solids can be expected)
- ◆ Vacuum relief valve installed on pump suction (used to control maximum vacuum level)
- ◆ Flow switch
- ◆ Vibration mounts (Shipped Loose)

#### (These options will extend standard lead times)

- ◆ 460 Volts, 3 phase, and 6- hz control panel with the following components:

**Simplex:** Full voltage starter c/w overload, control transformer, stop/start button, pump running light, hour meter, mounted in NEMA 12 panel.

**Duplex:** Full voltage starters c/w overloads, one control transformer, two HOA switches, two running lights, two hour meters, auto alternation, frequent start protection, mounted in NEMA 12 panel. Two vacuum switches are also included.

For other available options contact factory.

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