

OILSYS

OILSYS systems includes a liquid ring vacuum pump from ours series **TRH**, **TRS**, **TRM**, **TRV**, a separator tank which also as a frame, heat exchanger and oil demister to remove oil fumes.

Mineral oil, or equal, is used as service liquid. This fluid has physical properties such that enhances to pump performance and attainable maximum vacuum particularly for vacuum <100 mbar.

The gas handled by the vacuum pump is discharged with some of the service oil into the special frame which acts as gas/oil separator and allows separation from the oil of any evacuated condensable.

The oil is returned to the vacuum pump by means of a circulation pump after being cooled to about 60 °C (140 °F) through the heat exchanger.

The gas is vented after being filtered of any oil through the specially engineered oil demister filter. A pressure gauge at the filter housing will indicate over pressure when the oil demister filter is plugged and needs replacement.

Inspection openings are strategically located at the separator tank-frame to facilitate maintenance and cleaning.

Contrary to rotary vane pumps, these liquid ring vacuum pumps do not require lubrication, therefore contamination of oil by condensable or solid particles is not damaging.

The rugged and reliable construction of the liquid ring vacuum pump is matched by the generously engineered built OILSYS system.

These systems have successfully been used in industries such as brick and ceramics manufacturing, leather and wood processing, packaging and food processing, pneumatic conveying, poultry evisceration, plastic and pasta extrusion, etc.

OILSYS

- Complete vacuum package self-cooled with full recycle of oil
- No water or other cooling liquids required
- Vented air free of oil “smoke” or fumes
- Capability to handle gases with suspended particles
- Rotating parts have no metal to metal contact and do not require any lubrication
- Low noise level and low vibration
- Shut-off vacuum <10 mbar
- Turn key and compact packages
- Custom adaptation to meet specific installation and requirements
- Rugged construction with maximum dependability
- Maintenance requirements minimised
- Accessibility for maintenance is maximised

ACCESSORIES

- Separator cyclone with collecting tank at pump suction to recover solids and condensable
- Condenser at pump suction and discharge
- Non return valve and gauges
- Water-oil heat exchanger

Air-oil heat exchanger with oversized passages to minimise fouling

NOMENCLATURA COMPONENTS		ESECUZIONI CONSTRUCTIONS
Pompa per vuoto <i>Vacuum pump</i>		GH - F - RA
Serbatoio separatore - telaio <i>Separator tank - frame</i>		Acciaio al carbonio <i>Carbon steel</i>
Scambiatore di calore aria-olio <i>Air-oil heat Exchanger</i>	Blocco radiante <i>Cooler body</i>	Alluminio <i>Aluminium</i>
	Convogliatore <i>Fan protection</i>	Acciaio <i>Steel</i>
	Ventola - Griglia <i>Fan - Grate</i>	Acciaio - Plastica rinforzata <i>Steel - Hard plastic</i>
Pompa di ricircolo <i>Recirculation pump</i>		Ghisa <i>Cast Iron</i>
Tubazioni <i>Pipes</i>		Acciaio al carbonio - Gomma carburite <i>Carbon steel - Carburite rubber</i>
Valvole - Termometro <i>Valves - Thermometer</i>		Ottone <i>Brass</i>
Livelli <i>Level</i>		Policarbonato <i>Polycarbonate</i>

GRUPPO SERIE <i>FRAME SERIES</i>	POTENZA MAX MOTORE <i>MAX MOTOR POWER</i>	PESO A SECCO ESCLUSO POMPA E MOTORE <i>DRY WEIGHT WITHOUT PUMP AND MOTOR</i>	OLIO CIRCOLANTE <i>CIRCULATING OIL</i>
OILSYS 2	3 kW 2 poli / 50 Hz	Kg. 180 ca.	l. 40 ca.
OILSYS 3	4 kW 4 poli / 50 Hz	Kg. 220 ca.	l. 80 ca.
OILSYS 4	7,5 kW 4 poli / 50 Hz	Kg. 280 ca.	l. 100 ca.
OILSYS 5	15 Kw 4 poli / 50 Hz	Kg. 350 ca.	l. 140 ca.
OILSYS 6	30 kW 4 poli / 50 Hz	Kg. 500 ca.	l. 180 ca.
OILSYS 7	45 kW 6 poli / 50 Hz	Kg. 750 ca.	l. 370 ca.