

# IRRIGATION PUMP SETS

## ENGINES: TR1, TR2, TR3

Water pumps: Etanorm 50-200, 80-160, 100-200, 125-200, 150-200

Water flow from up to 40-560 m<sup>3</sup>/hr

### AIR COOLED PUMP SETS FOR OPERATING CONDITIONS UP TO 52°C

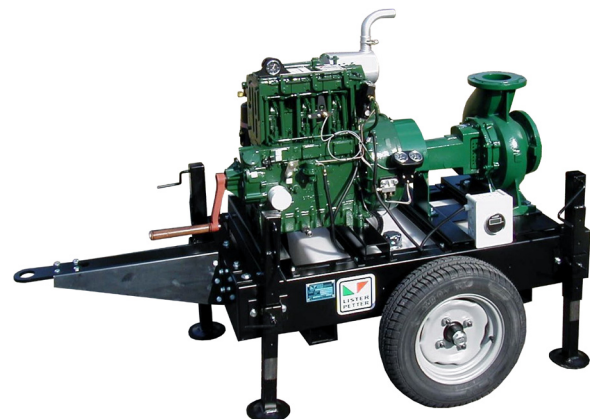
*Engine outputs used for the design of the pump sets are continuous ISO 3046 ratings under NTP conditions.*

*The pump sets are designed to ensure optimum performance, taking into account standard operating site conditions.*

*The engine selection is made with at least 20% differential between the power absorbed by the pump and the engine output. This is to take into account extreme site conditions (especially high altitudes). The engine outputs after derating must be checked against the absorbed power by the pump.*

#### STANDARD FEATURES

- Lister Petter TR air cooled diesel engine
- hand start or electric start
- continuous operation for up to 24 hours a day
- stationary or mobile configuration
- corrosion resistant galvanised base complete with forklift pockets (except TR1)
- 66 litres polypropylene fuel tank with contents gauge (except TR1)
- 13.5L engine mounted fuel tank (TR1 only)
- operators' handbook
- heavy duty, single stage, centrifugal, end suction pump with cast iron casing and impeller
- suction and delivery flanges conforming with DN2533/PN16 – ISO7005-2/PN16
- soft packed stuffing box used for shaft seal
- hardened chrome steel shaft sleeve to protect pump shaft



**T SERIES ETANORM 125-200 PUMP SET  
(MOBILE CONFIGURATION)**

#### OPTIONAL ITEMS

- 12V electric start
- off-road trailer with 2 wheeled axle, towbar and positioning stands (except TR1); towing speed limited to 25km/hr maximum
- site trolley kit (TR1 only)

**Note:**

*A foot valve and strainer must be fitted to the suction pipe to facilitate priming.*

TECHNICAL DATA														
Pump Code	Engine	r/min	Power (kW)		Total head (m)									
					6	8	9	10	11	12	14	23	25	27
Etanorm 50-200	TR1	2000	7.3	Flow rates in m <sup>3</sup> /hr						71	64	58	43	40
Etanorm 80-160		1600	5.9		132	113	94	61						
Etanorm 100-200	TR2	1800	18.1				217		195	170				
Etanorm 125-200		1500	11.0			250		165		100				
		1600	11.7			320		280		180	125			
Etanorm 150-200		1500	11.0		400	300		220						
Etanorm 125-200	TR3	1800	20.2					365		315	250			
Etanorm 150-200		1500	16.8		460	390		305		160				
		1700	19.0			475		400		290				
		1800	20.2			560		505		446	370			

PUMP FLANGE DIMENSIONS				
Pump model	Suction Flange		Discharge Flange	
	mm	inches	mm	inches
Etanorm 50-200	65	2.5	50	2
Etanorm 80-160	100	4	80	3
Etanorm 100-200	125	5	100	4
Etanorm 125-200	150	6	125	5
Etanorm 150-200	200	8	150	6

**RATING DEFINITIONS (ISO 3046)**

The power in kW stated in this data sheet is the power, which the engine is capable of delivering continuously at the stated crankshaft speed under conditions of 100 kPa barometric pressure, 30% relative humidity and 25°C air inlet temperature, provided that the engine is overhauled and maintained in good operating condition and that fuel to BS EN 590 Class A1 or A2, and lubricating oils to the correct performance specification and viscosity classification as recommended by Lister Petter Limited, are used.

The maximum power in kW stated here is obtained with the fuel limited, so that the fuel stop power cannot be exceeded.

Any site condition outside the above stated values may affect the engine selection to drive a pump and you need to clearly specify site conditions (ambient temperature, relative humidity and site altitude) to allow Lister Petter Limited to check the engine capabilities to obtain the required performances.

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