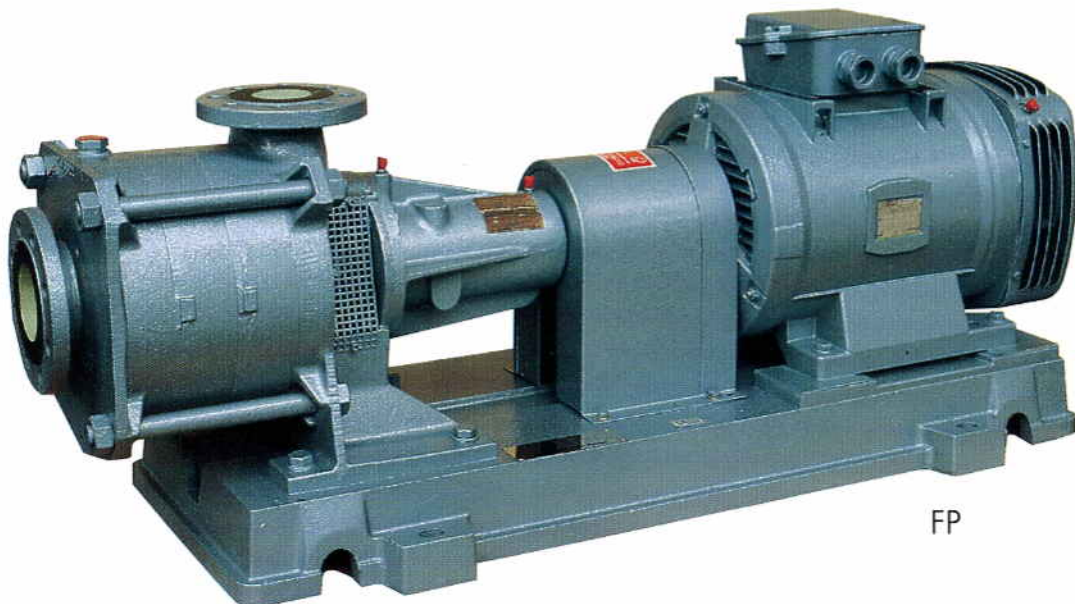
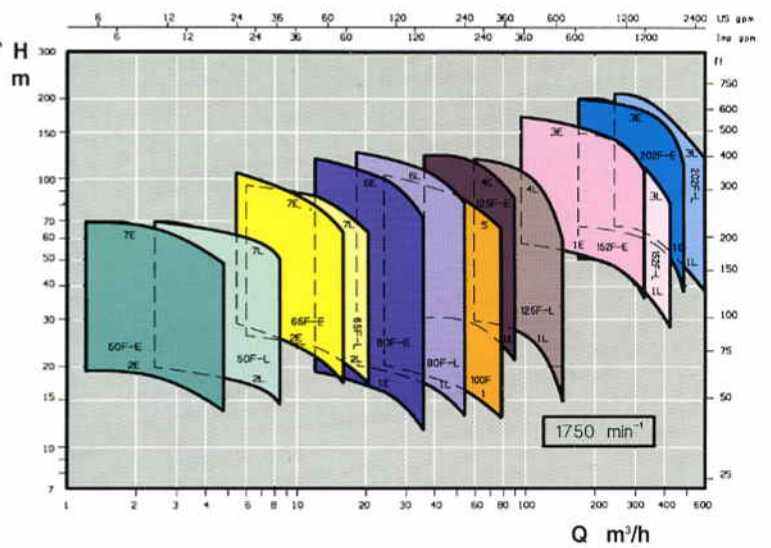
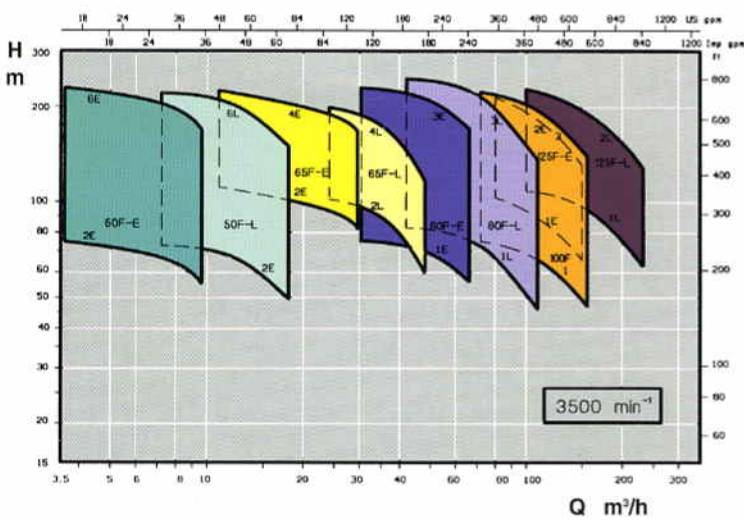
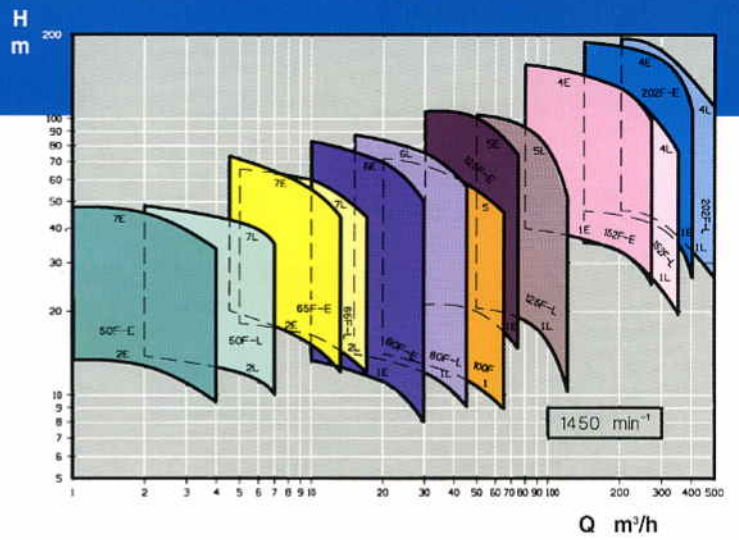
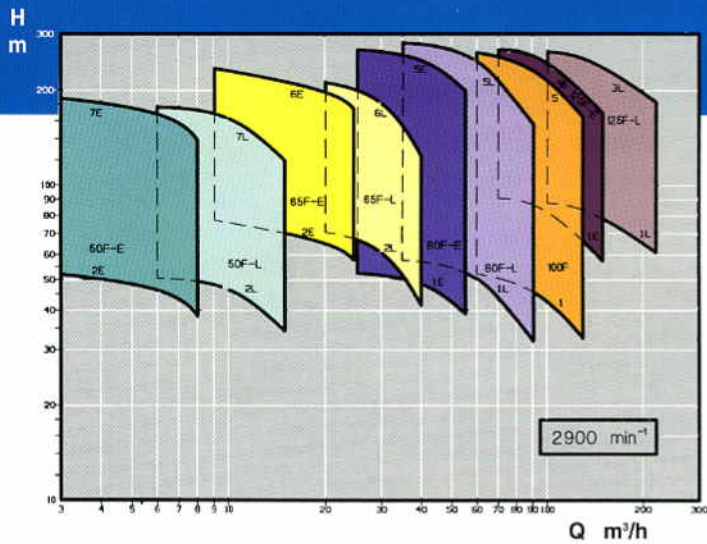


ID Ingersoll-Dresser Pumps

F Multistage water pump



Coverage charts 50 Hz and 60 Hz



Products conform to European Regulations regarding general Safety Requirements.

Configurations

Centrifugal multistage pumps and pump sets, working pressure 25 bar, designed for pumping cold water and any clear liquid compatible with the standard materials.

This range of modular construction includes :

- 7 pump sizes designed by the suction diameters of : 50, 65, 80, 100, 125, 152, 202.

- 13 hydraulics, "E" = low capacity impeller and "L" = high capacity impeller.

2 impeller types for each size (exception : only 1 impeller type for size 100).

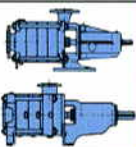


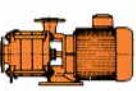


The excellent hydraulic efficiency and the high suction lift are the main features of these pumps.

The reduced number of components for the wide range of hydraulic coverage and the numerous possibilities of installation make maintenance easy.

The modular concept gives maximum interchangeability of components with subsequent low inventory costs.

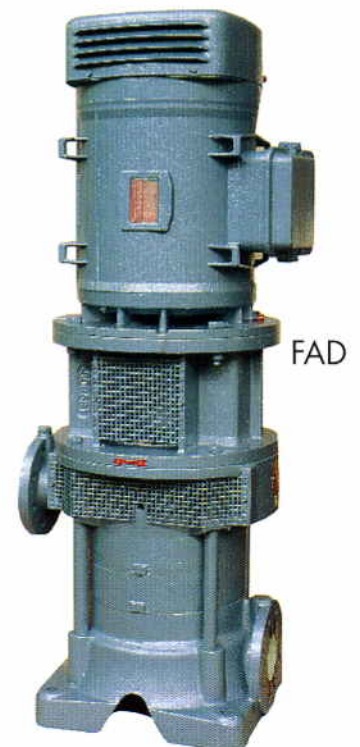
Due to a bearingless construction on the suction side (FP, FM, FMD) the pumping of slightly abrasive liquids is possible without any degradation of the shaft alignment regardless of the degree of wear on the hydraulic components.

The shaft is sleeved under the sealing system.

Pump configurations		
	FP	Horizontal overhung bearing pump. Axial suction, grease lubricated ball bearing. Belt and pulley drives are possible on request.
	FD	Vertical pump, suction in the soleplate, lateral discharge. Thrust bearing with grease lubricated ball bearing. Semi flexible coupling between the motor shaft and the coupling shaft with automatic alignment. Required floor space reduced.
	FAD	Vertical close coupled electrical pump set. Radial suction at the bottom. Rigid coupling. Required floor space reduced. Squirrel cage drip-proof motor, with heavy duty grease lubricated bearings.
	FM	Horizontal close coupled electrical pump set, with axial suction and common support. Squirrel cage TEFC motor with extended shaft and grease lubricated bearings.
	FMD	Vertical close coupled electrical pump set. Radial suction at the bottom. Required floor space reduced. Squirrel cage TEFC motor with extended shaft and grease lubricated bearings.
	FS	Vertically suspended pump, axial suction, radial discharge close to the hydraulic level (d1), on the raised pipe (d2) or above the soleplate (d3). Intermediate rubber bearing (bronze or cast iron on request). Thrust bearing housing on the motor support housing with grease lubricated bearings. Self-aligning semi flexible coupling.

	speed	Maximum number of stages						
		50	65	80	100	125	152	202
FP	1 450 min ⁻¹	7	7	6	5	5	4	4
	2 900 min ⁻¹	7	6	5	5	3		
FD	1 450 min ⁻¹	7	7	6	5	5	6*	6*
	2 900 min ⁻¹	7	6	5	3			
FAD	1 450 min ⁻¹						6*	5*
	2 900 min ⁻¹		6	5	4	1		
FM	1 450 min ⁻¹							
	2 900 min ⁻¹	5	4					
FMD	1 450 min ⁻¹							
	2 900 min ⁻¹	5	4					
FS	1 450 min ⁻¹	7	6	5	4	3	3	3
	2 900 min ⁻¹	7	6	5	4	3		
upon request								

* See pumps NMAD - NMD.



Products conform to European Regulations regarding general Safety Requirements

Materials

DESCRIPTION	FP	FD	FAD	FM	FMD	FS
Suction casing	Cast iron grade 250					
Discharge casing	Cast iron grade 250					
Stage casing	Cast iron grade 250					
Impeller	Cast iron grade 250 *			Noryl		Cast iron grade 250
Shaft	Steel grade 2 C 35					
Sleeve	13 % Chromium steel					
Diffuser	Cast iron grade 250 *			Noryl		Cast iron grade 250

* Available in Noryl for sizes 50, 65 and 80.
Other materials, upon request.



FM

Products conform to European Regulations regarding general Safety Requirements



FMD

Products conform to European Regulations regarding general Safety Requirements

Normal operating conditions

Pumped liquid	Water and other non-abrasive, non corrosive liquids	
Maximum temperature	Noryl construction	80°C
	Cast iron construction	105°C
Maximum working pressure	discharge side	25 bars
	suction side	
	for sizes up to 125	16 bars
	for sizes 152 and 202	10 bars

For other operating conditions, please let us know.



- Irrigation
- Sprinkling
- Water supply
- Boosting
- Fire fighting

 **Ingersoll-Dresser Pumps**

We reserve the right to amend designs without notice