

max 80°C



### APPLICATIONS

Pumping of charged liquid, leachate collection, raising from wells or tanks of liquid contaminated even by hydrocarbons and landfill wastewater, condensation wells discharge, pumping of run-off water even contaminated and charged sewage.

The pumps can not be installed in potentially explosive atmospheres.

### FEATURES

- Open impeller in cast iron to avoid the blockage due to charged liquid, landfill leachate and other small solid bodies.
- **Cast iron parts with galvanic treatment** to increase its resistance.
- **Viton seals.**
- Shaft in AISI 316 stainless steel; motor case in AISI 304 (**available on request in AISI 316**).
- Electric pumps produced with 5 m of ID 4G1,5 electric cable included.

### MOTOR

- 2 poles asynchronous motor, 50 Hz, 2850 rpm.
- Class F insulation.
- IP68 protection.
- Working voltage: single-phase 230 V, three-phase 400 V.
- Electric motor cooled by non-toxic, non-polluting liquid.
- **Motor protected by thermal switches** resistant to temperatures up to 80 °C.

### OPERATING CONDITIONS

- The pump can not operate in dry conditions.
- Pump body always completely submerged.
- Temperature of pumped liquid: min 0 °C – max 80 °C.
- Frost free location.
- Vertical operating position.
- Maximum number of starts per hour: 20.

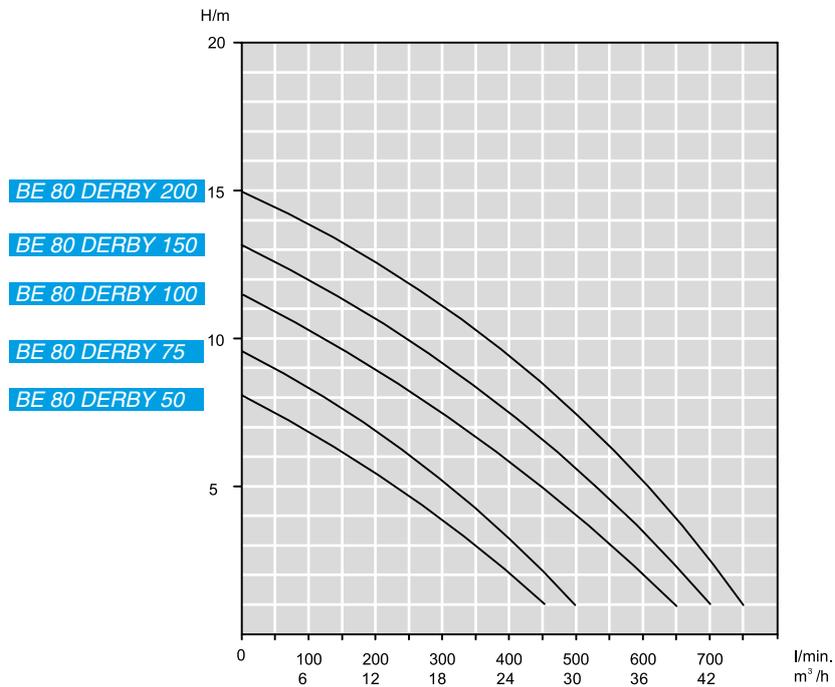
### ACCESSORIES

- Control panel.
- Level regulator.
- BE electronic level transmitter.
- ID 4G1,5 round cable.

Technical specifications

Pump type	Motor		Cap. $\mu$ F VL 450	Max current		Outlet $\varnothing$	Delivery																	
	HP	kW		230 V	400 V		l/min	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	
				1~	3~			A	A	m <sup>3</sup> /h	0	3	6	9	12	15	18	21	24	27	30	33	36	39
BE 80 DERBY 50	0,5	0,37	20	4,3	1,5	2"	Manometric head (m)	8	7,3	6,5	6	5,5	4,7	3,7	3	2	1							
BE 80 DERBY 75	0,75	0,55	20	5,1	1,7			9,5	9	8,2	7,5	6,8	6	5,2	4,2	3,2	2	1						
BE 80 DERBY 100	1	0,75	25	7	2,5			11,5	10,9	10,2	9,6	9	8,2	7,5	6,6	5,8	5	4	3	2	1			
BE 80 DERBY 150	1,5	1,1	35	10,5	3,1			13,1	12,5	12	11,5	10,8	10	9,1	8,2	7,3	6,5	5,5	4,3	3,2	2,1	1		
BE 80 DERBY 200	2	1,5	40	12,5	3,8			15	14,5	13,9	13,2	12,5	11,9	11	10,2	9,5	8,3	7,2	6,2	5,1	4	2,4	1	

Performance curves



Dimensions and weights

Pump type	Dimensions		Weight
	mm		
	A	B	kg
BE 80 DERBY 50	445	230	16,7
BE 80 DERBY 75	445	230	16,7
BE 80 DERBY 100	475	230	18,1
BE 80 DERBY 150	505	250	20,6
BE 80 DERBY 200	520	250	21,8

