



新久扬机械

# DCZ

## TYPE PETROCHEMICAL PROCESS PUMP

Wuxi Xinjiuyang Machinery Manufacturing Co., Ltd.

(Xinjiuyang Pump)





## Company Profile

Our company is a joint-stock enterprise specializing in the scientific research, production and sales of various kinds of ANSI, ISO2858 & ISO5199 chemical pumps, API610 chemical pumps, API685 magnetic pumps, vertical submerged pumps, double suction pumps, fluorine lined pumps, slurry pumps, direct coupling centrifugal pumps and other chemical pumps and variable frequency water supply equipment. So far our factory is in Wuxi City and we have a trading company in Shanghai City.

The total area of the company is about 15 thousand square meters, the workshop area is 13 thousand square meters, the turnover reached 10 million USD in the year 2020, with an annual output of about 10 thousand sets. Our company has received the title of Jiangsu High-tech Enterprise in 2020, and passed the ISO9001 quality system certification and CE certification.

Because of the continuous cooperation with Jiangsu University fluid center (Top-level fluid R&D center in China) and other universities, the quality of products has been steadily improving year by year, the product structure has been more reasonable, the market reputation has been rising, and the user community continues to expand. In 2020, we have mainly developed several major customers: global grain and oil giant -Cargill, multinational steel group- Delong Holdings, the top ten private enterprises in China- Xinfu Group.

The company has more than 30 series of pumps for users to choose. The company's products are adapted to different media, different temperatures, different specific gravity, different particle content, and different operating environments in terms of material diversity, structural variability, and multiple selection of seals. Products are widely used in petrochemical, metallurgy, automobile part coating, salad oil, food, light industry, chemical, pharmaceutical, electric power, mining, water treatment, high-rise construction and many other industries.



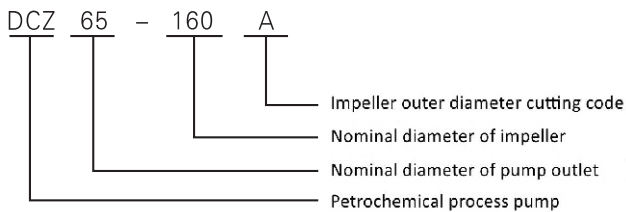
## Product description

The DCZ series standard chemical pumps are horizontal single-stage single-suction centrifugal pumps with dimensions and per formance in accordance with DIN24256/ISO2858.

The performance range of DCZ series standard chemical pumps includes all the performances of IH series standard chemical pumps. In addition, the castings are all high-precision silica sol castings, its efficiency, cavitation performance and other indicators exceed IH series chemical pumps. It can be widely used to transport inorganic acids and organic acids such as sulfuric acid, nitric acid, hydrochloric acid and phosphoric acid at various temperatures and concentrations. Alkaline solutions such as sodium hydroxide and sodium carbonate at various temperatures and concentrations. Various salt solutions and various liquid petrochemicals, organic compounds, and other corrosive materials and products are included.



## Model description



## Performance parameter

**Structure:** Single-stage single-suction;

**Flow rate:** ≤ 2000 m<sup>3</sup>/h;

**Head:** ≤ 160 m;

**Standard:** DIN24256, ISO2858;

**Working pressure:** 2.5 MPa;

**Working temperature:** -80 °C~+300 °C;

**Motor power:** 1.1~160 kW;

**Outlet Caliber:** DN32~DN300;

**Speed:** 1450 rpm, 2900 rpm;

**Material:** Carbon steel, ss304, ss316, duplex steel, titanium alloy, etc.;

**Application:** Petrochemical, chemical, auto part coating, vegetable oil, battery industry, Textile, metallurgy, food, pharmaceutical, sugar, water supply, desalination, environmental protection, etc.

## Design Features

**High efficiency and energy saving:** Using high-quality hydraulic model, the pump has high efficiency and wide performance range. By changing the outer diameter of the impeller, it can meet different performance requirements.

**Strong versatility:** The whole series has good versatility, high degree of serialization, facilitate unified management and reduce spare parts inventory.

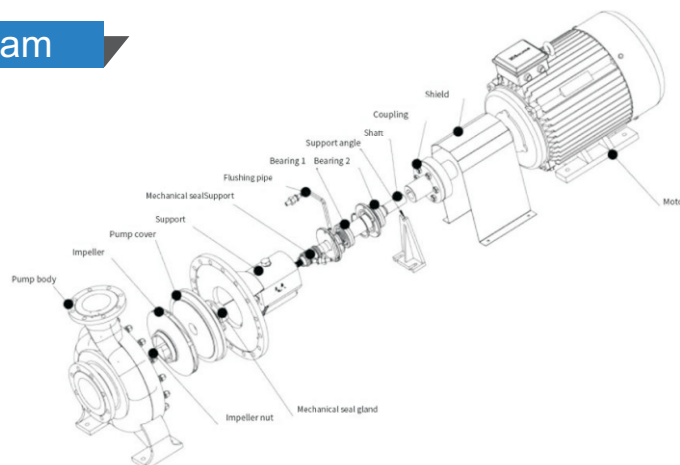
**Reliable operation:** Thickened the pump shaft, eliminate the bushing, reduce the sealing surface, and reduce the failure rate.

**Safety and environmentally friendly:** Enlarge the bearing housing, no need for oil lubrication, reduce leakage points, conducive to on-site environmental sanitation.

**Various sealing options:** Can be matched with single end seal, double end seal, packing seal and K-type seal.

**Convenient maintenance:** Adopting cartridge type single or double end seal, which can be accurately installed in place without the need of professionals.

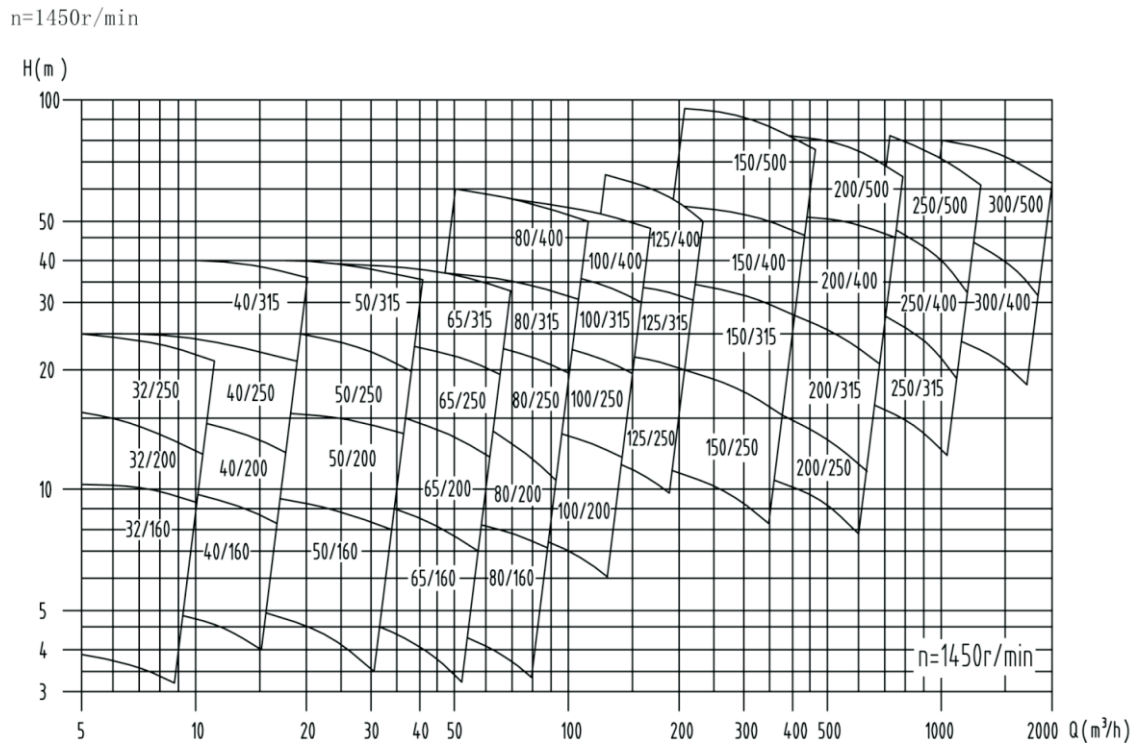
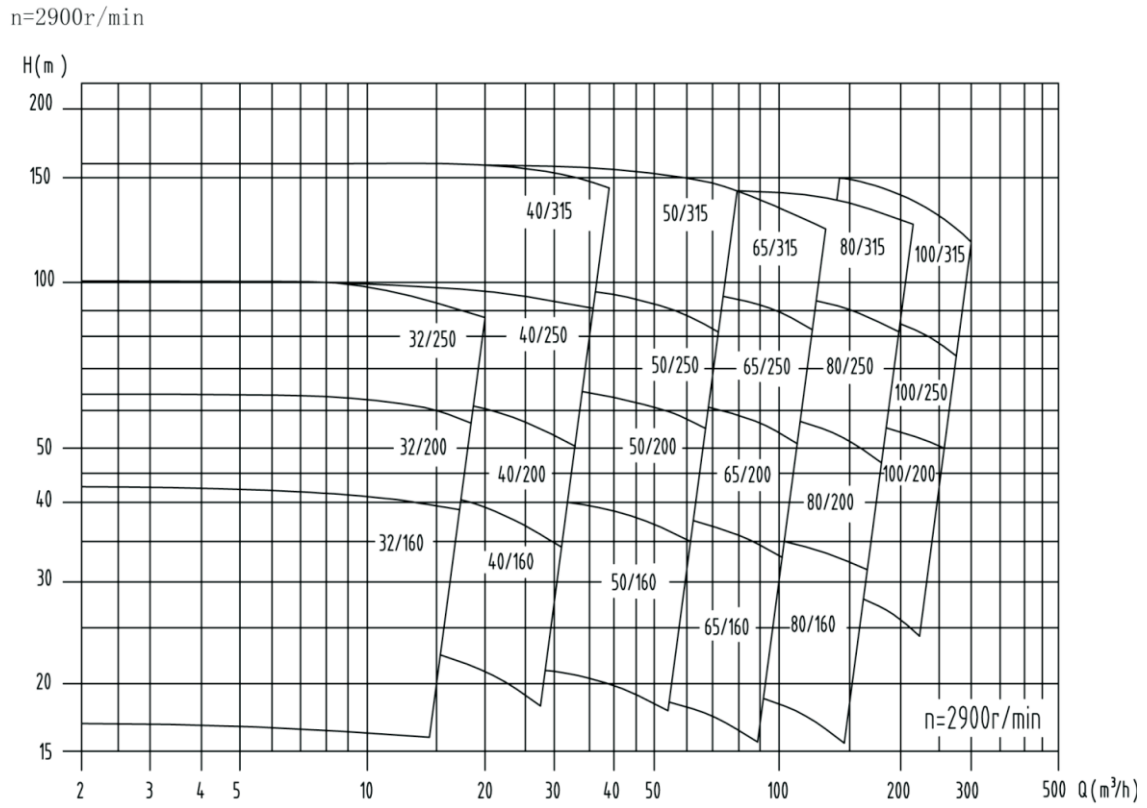
## Structural diagram



Remarks: The company may change the actual structure according to different working conditions, the specific structure is accurate in kind.



Spectrum diagram





Performance parameter table

Model	Pump rated n=2900r/min										Pump rated n=1450r/min										
	Impeller type	Capacity (m <sup>3</sup> /h)	Head (m)	Proportion r=1.00		Proportion r=1.35		Proportion r=1.84		Capacity (m <sup>3</sup> /h)	Head (m)	Proportion r=1.00		Proportion r=1.35		Proportion r=1.84					
				Motor power and model								Motor power and model									
				(KW)		(KW)		(KW)				(KW)		(KW)		(KW)		(KW)			
DCZ32-160	A	20	36	4.0	112M-2	5.5	132S-2	7.5	132S <sub>2</sub> -2	11	9.0	1.1	90S-4	1.1	90S-4	1.5	90L-4				
	B	18	32							10	8.0					1.1	90S-4	1.1	90S-4	1.1	90S-4
	C	17	28	3.0	100L-2	4.0	112M-2	5.5	132S <sub>1</sub> -2	9.0	7.0					1.1	90S-4	1.1	90S-4	1.1	90S-4
	D	15	20	2.2	90L-2	3.0	100L-2	4.0	112M-2	6.0	5.0					1.1	90S-4	1.1	90S-4	1.1	90S-4
	E	13	14							6.0	3.0					1.1	90S-4	1.1	90S-4	1.1	90S-4
DCZ32-200	A	20	50	7.5	132S <sub>2</sub> -2	11	160M <sub>1</sub> -2	15	160M <sub>2</sub> -2	10	13	1.5	90L-4	1.5	90L-4	2.2	100L <sub>1</sub> -4				
	B	18	48					11	160M <sub>1</sub> -2	9.0	12					1.5	90L-4	1.5	90L-4	1.5	90L-4
	C	16	40	5.5	132S <sub>1</sub> -2	7.5	132S <sub>2</sub> -2			8.0	10					1.5	90L-4	1.5	90L-4	1.5	90L-4
	D	15	30	4.0	112M-2	5.5	132S <sub>1</sub> -2	7.5	132S <sub>2</sub> -2	8.0	8.0					1.5	90L-4	1.5	90L-4	1.5	90L-4
DCZ32-250	A	20	85	15	160M <sub>2</sub> -2	18.5	160L-2	30	200L <sub>1</sub> -2	11	20	2.2	100L <sub>1</sub> -4	3.0	100L <sub>2</sub> -4	4.0	112M-4				
	B	20	75							10	19					2.2	100L <sub>1</sub> -4	2.2	100L <sub>1</sub> -4	3.0	100L <sub>2</sub> -4
	C	18	65	11	160M <sub>1</sub> -2	15	160M <sub>2</sub> -2	18.5	160L-2	9.0	15					2.2	100L <sub>1</sub> -4	2.2	100L <sub>1</sub> -4	2.2	100L <sub>1</sub> -4
	D	15	50	7.5	132S <sub>2</sub> -2	11	160M <sub>1</sub> -2	15	160M <sub>2</sub> -2	8.0	11					2.2	100L <sub>1</sub> -4	2.2	100L <sub>1</sub> -4	2.2	100L <sub>1</sub> -4
DCZ40-160	A	30	34	7.5	132S <sub>2</sub> -2	11	160M <sub>1</sub> -2	15	160M <sub>2</sub> -2	15	8.0	1.1	90S-4	1.1	90S-4	1.5	90L-4				
	B	28	30	5.5	132S <sub>1</sub> -2	7.5	132S <sub>2</sub> -2	11	160M <sub>1</sub> -2	15	7.0					1.1	90S-4	1.1	90S-4	1.1	90S-4
	C	16	26			5.5	132S <sub>1</sub> -2	7.5	132S <sub>2</sub> -2	14	6.0					1.1	90S-4	1.1	90S-4	1.1	90S-4
	D	14	18	3.0	100L-2			5.5	132S <sub>1</sub> -2	12	4.0					1.1	90S-4	1.1	90S-4	1.1	90S-4
DCZ40-200	A	34	50	11	160M <sub>1</sub> -2	15	160M <sub>2</sub> -2			16	13	1.5	90L-4	1.5	90L-4	2.2	100L <sub>1</sub> -4				
	B	30	48	7.5	132S <sub>2</sub> -2	11	160M <sub>1</sub> -2	15	160M <sub>2</sub> -2	15	12					1.5	90L-4	1.5	90L-4	2.2	100L <sub>1</sub> -4
	C	26	38		132S <sub>1</sub> -2	7.5	132S <sub>2</sub> -2	11	160M <sub>1</sub> -2	14	9.0					1.1	90S-4	1.1	90S-4	1.5	90L-4
	D	22	30	5.5						12	7.0					1.1	90S-4	1.1	90S-4	1.1	90S-4
DCZ40-250	A	36	85	22	180M-2	30	200L <sub>1</sub> -2	45	225M-2	20	21	4.0	112M-4	5.5	132S-4	5.5	132S-4				
	B	34	80	18.5	160L-2	22	180M-2	37	200L <sub>2</sub> -2	18	20					3.0	100L <sub>2</sub> -4	4.0	112M-4	5.5	132S-4
	C	30	65	15	160M <sub>2</sub> -2	18.5	160L-2	30	200L <sub>1</sub> -2	16	15					2.2	100L <sub>1</sub> -4	3.0	100L <sub>2</sub> -4	4.0	112M-4
	D	26	50	11	160M <sub>1</sub> -2	15	160M <sub>2</sub> -2	18.5	160L-2	13	12					2.2	100L <sub>1</sub> -4	2.2	100L <sub>1</sub> -4	2.2	100L <sub>1</sub> -4
DCZ40-315	A	46	140	45	225M-2	55	250M-2			22	36	11	160M-4	11	160M-4		160M-4				
	B	44	130	37	200L <sub>2</sub> -2	45	225M-2			22	32					5.5	132S-4	11	160M-4	11	160M-4
	C	40	100	30	200L <sub>1</sub> -2	37	200L <sub>2</sub> -2	37	200L <sub>2</sub> -2	20	24					4.0	112M-4	5.5	132S-4		
	D	34	80			30	200L <sub>1</sub> -2	37	200L <sub>2</sub> -2	18	18					4.0	112M-4	4.0	112M-4	5.5	132S-4
DCZ50-160	A	55	34	11	160M <sub>1</sub> -2	11	160M <sub>1</sub> -2	15	160L <sub>2</sub> -2	30	8.0	1.5	90L-4	2.2	100L <sub>1</sub> -4	3.0	100L <sub>2</sub> -4				
	B	50	30	7.5	132S <sub>2</sub> -2					26	7.0					1.5	90L-4	2.2	100L <sub>1</sub> -4	2.2	100L <sub>1</sub> -4
	C	46	26	5.5	132S <sub>1</sub> -2	7.5	132S <sub>2</sub> -2	11	160M <sub>1</sub> -2	24	6.0					1.1	90S-4	1.1	90S-4	1.5	90L-4
	D	40	18			5.5	132S <sub>1</sub> -2	7.5	132S <sub>2</sub> -2	20	4.0					1.1	90S-4	1.1	90S-4	1.1	90S-4
DCZ50-200	A	65	56	18.5	160L-2					34	14	3.0	100L <sub>2</sub> -4	4.0	112M-4	5.5	132S-4				
	B	65	50	15	160M <sub>2</sub> -2	18.5	160L-2			34	12					2.2	100L <sub>1</sub> -4	3.0	100L <sub>2</sub> -4	4.0	112M-4
	C	50	40	11	160M <sub>1</sub> -2	15	160M <sub>2</sub> -2	18.5	160L-2	30	10					1.5	90L-4	2.2	100L <sub>1</sub> -4	3.0	100L <sub>2</sub> -4
	D	40	32	7.5	132S <sub>2</sub> -2	11	160M <sub>1</sub> -2	15	160M <sub>2</sub> -2	24	7.0					1.5	90L-4	1.5	90L-4	2.2	100L <sub>1</sub> -4
DCZ50-250	A	65	85	30	200L <sub>1</sub> -2	37	200L <sub>2</sub> -2	45	225M-2	34	21	5.5	132S-4	5.5	132S-4	11	160M-4				
	B	60	80					45	225M-2	30	20					4.0	112M-4	5.5	132S-4	11	160M-4
	C	55	65	22	180M-2	30	200L <sub>1</sub> -2	37	200L <sub>2</sub> -2	26	16					3.0	100L <sub>2</sub> -4	4.0	112M-4	5.5	132S-4
	D	45	60	15	160M <sub>2</sub> -2	15	160M <sub>2</sub> -2	22	180M-2	24	12					2.2	100L <sub>1</sub> -4	3.0	100L <sub>2</sub> -4	4.0	112M-4
DCZ50-315	A	80	140							42	36	11	160M-4	11	160M-4	15	160L-4				
	B	75	135	55	250M-2					42	32					11	160M-4	11	160M-4	11	160M-4
	C	70	110	45	225M-2					40	26					11	160M-4	11	160M-4	11	160M-4
	D	65	85	37	200L <sub>2</sub> -2	45	225M-2			36	20					11	160M-4	11	160M-4	11	160M-4



Model	Impeller type	Pump rated n=2900r/min								Pump rated n=1450r/min											
		Capacity (m <sup>3</sup> /h)	Head (m)	Proportion r=1.00		Proportion r=1.35		Proportion r=1.84		Capacity (m <sup>3</sup> /h)	Head (m)	Proportion r=1.00		Proportion r=1.35		Proportion r=1.84					
				Motor power and model								Motor power and model									
				(KW)		(KW)		(KW)				(KW)		(KW)		(KW)					
DCZ65-160	A	100	32	15	160M2-2	18.5	160L-2		50	8.0	2.2	100L1-4	3.0	100L2-4	4.0	112M-4					
	B	90	32					22	180M-2	48			7.0								
	C	90	24	11	160M1-2	15	160M2-2	18.5	160L-2	46			6.0	2.2	100L1-4	3.0	100L2-4				
	D	80	14	5.5	132S1-2	7.5	132S2-2	11	160M1-2	38			4.0								
DCZ65-200	A	100	54	22	180M2-2	30	200L1-2	37	200L2-2	50	13	4	112M-4	4.0	112M-4	5.5	132S-4				
	B	90	50							46	12	3.0	100L2-4	3.0	100L2-4	4.0	112M-4				
	C	90	40	18.5	160L-2	22	180M-2	30	200L1-2	42	10			2.2	100L1-4	2.2	100L1-4	3.0	100L2-4		
	D	70	30	11	160M1-2	15	160M2-2	18.5	160L-2	36	7.0										
DCZ65-250	A	115	85	45	225M-2	55	250M-2			54	21			11	160M-4	11	160M-4	11	160M-4		
	B	115	75							50	20	5.5	132S-4								
	C	100	65	37	200L2-2	45	225M-2	55	250M-2	46	16	4.0	112M-4	5.5	132S-4						
	D	80	50	30	200L1-2	30	200L-2	37	200L2-2	40	10			4.0	112M-4	5.5	132S-4				
DCZ65-315	A	135	135	90	280M-2	110	315S-2	160	315M2-2	64	31			11	160M-4	15	160L-4	18.5	180M-4		
	B	130	125							61	30										
	C	115	115	75	280S-2	90	280M-2	132	315M1-2	56	28					11	160L-4	15	160L-4		
	D	110	110	55	250M-2	75	280S-2	110	315S-2	54	24	5.5	132S-4			5.5	132S-4	11	132S-4		
	E	90	85	45	225M-2	55	250M-2	75	280S-2	50	20										
	F	75	70	30	200L1-2	45	225M-2	55	250M-2	52	16										
DCZ80-160	A	170	30	22	180M-2	30	200L1-2	37	200L2-2	75	8.0			3.0	100L2-4	4.0	112M-4	5.5	132S-4		
	B	160	26	18.5	160L-2	22	180M-2		30	200L1-2	70	7.0									
	C	150	22	15	160M2-2	18.5	160L-2			70	5.0	2.2	100L1-4			3.0	100L2-4	4.0	112M-4		
	D	130	16	11	160M1-2	15	160M2-2	18.5	160L-2	65	4.0							2.2	100L1-4	2.2	100L1-4
DCZ80-200	A	150	50	37	200L2-2	45	225M-2	55	250M-2	80	12	5.5	132S-4	11	160M-4	11	160M-4				
	B	140	46	30	200L1-2	37	200L2-2			75	11	4.0	112M-4	5.5	112M-4						
	C	130	38	22	180M-2	30	100L1-2			65	9.0	3.0	100L2-4	4.0	112M-4	5.5	132S-4				
	D	110	26	15	160M2-2	18.5	160L-2	30	200L1-2	60	6.0					3.0	100L2-4	4.0	112M-4		
DCZ80-250	A	190	80							90	20	11	160M-4	11	160L-4	15	160L-4				
	B	180	75	55	250M-2					90	19										
	C	170	70	45	225M-2					85	17			5.5	132S-4	5.5	132S-4	11	160M-4		
	D	150	55	37	200L2-2	55	250M-2	75	280S-2	75	14										
	E	130	47	30	200L1-2	37	200L2-2	55	250M-2	70	11										
DCZ80-315	A	200	130	110	315S-2	160	315M2-2			100	32	15	160L-4	18.5	180M-4	30	200L-4				
	B	180	125			132	280M-2			95	30										
	C	160	100	75	280S-2	90	280S-2	132	315M1-2	85	24					15	160L-4	18.5	180M-4		
	D	150	75	55	250M-2	75	280S-2	90	280M-2	70	18							15	160L-4		
DCZ80-400	A									105	52	30	200L-4	37	255S-4						
	B									100	50										
	C									90	44			18.5	180M-4	30	200L-4				
	D									80	38										
	E									75	30							18.5	180M-4	30	200L-4
DCZ100-200	A	220	45	45	225M-2	55	250M-2			115	11	5.5	132S-4	11	160M-4	11	160M-4				
	B	200	40	30	200L1-2	45	225M-2	55	250M-2	100	10										
	C	180	30							45	225M-2			90	8.0	5.5	132S-4	5.5	132S-4		
	D	150	25	22	180M-2	30	200L1-2			37	200L1-2			80	6.0						



Model	Impeller type	Pump rated n=2900r/min									Pump rated n=1450r/min														
		Capacity (m³/h)	Head (m)	Proportion r=1.00			Proportion r=1.35			Proportion r=1.84			Capacity (m³/h)	Head (m)	Proportion r=1.00			Proportion r=1.35			Proportion r=1.84				
				Motor power and model											Motor power and model										
				(KW)			(KW)			(KW)					(KW)			(KW)			(KW)				
DCZ100-250	A	280	75	90	280M-2						130	20	15	160L-4	30	200L-4									
	B	250	70	75	280S-2	110	315S-2	160	315M2-2	130	18			15	160L-4	30	200L-4								
	C	230	55	55	250M-2	75	280S-2	110	315S-2	120	14	11	160M-4	11	160M-4	15	160L-4								
	D	200	40	37	200L2-2	55	250M-2	75	280S-2	100	10					11	160M-4	11	160M-4						
DCZ100-315	A	270	135	160	315M2-2						132	32	30	200L-4	30	200L-4									
	B	250	130	132	315M1-2						120	30	18.5	180M-4	30	200L-4									
	C	230	100	110	315S-2	132	315M1-2				100	26					30	200L-4							
	D	200	85	75	280S-2	110	315S-2	132	315M1-2	90	21	15	160M-4	15	160L-4	18.5	180M-4								
DCZ100-400	A										150	50	45	225M-4	45	225M-4									
	B										140	48													
	C										120	40	30	200L-4			45	225M-4							
	D										100	30	18.5	180M-4	30	200L-4	30	200L-4							
DCZ125-250	A										200	20	18.5	180M-4	22	180L-4									
	B										200	18	15	160L-4	18.5	180M-4									
	C										190	14			15	160M-4									
	D										160	10	11	160M-4	11	160M-4	15	160L-4							
DCZ125-315	A										200	30			37	225S-4	45	225M-4							
	B										180	30	30	200L-4			37	225S-4							
	C										170	24	18.5	180M-4	30	200L-4									
	D										100	18	15	160L-4	18.5	180M-4	30	200L-4							
DCZ125-400	A										220	50	55	250M-4	72	280S-4									
	B										200	48	45	225M-4	72	280S-4									
	C										180	46	37	225S-4	55	250M-4									
	D										170	42			45	225M-4									
	E										150	36	30	200L-4	30	200L-4									
	F										150	30													
DCZ150-250	A										320	17	22	180L-4											
	B										300	15	18.5	180M-4	30	200L-4	37	225S-4							
	C										280	13													
	D										260	12	15	160L-4	18.5	180M-4	30	200L-4							
	E										240	11	11	160M-4	15	160L-4	22	180L-4							
DCZ150-315	A										380	30	45	225M-4	75	280S-4									
	B										340	26	37	225S-4	45	225M-4									
	C										320	20	30	200L-4	37	225S-4	55	250M-4							
	D										300	17	22	180L-4	30	200L-4	37	225S-4							
DCZ150-400	A										400	48	75	280S-4	110	315S-4									
	B										340	40	55	250M-4	75	280S-4									
	C										300	34	45	225M-4			90	280S-4							
	D										260	28	37	225S-4	45	225M-4	75	280M-4							
DCZ150-500	A										420	80	132	315M1-4											
	B										400	70			160	315M2-4									
	C										360	65	110	315S-4	130	315M1-4									
	D										340	50	75	280S-4	110	315S-4	132	315M1-4							
	E										300	45	55	225M-4	75	280S-4	110	315M1-4							



Model	Impeller type	Pump rated n=2900r/min								Pump rated n=1450r/min							
		Capacity (m³/h)	Head (m)	Proportion r=1.00		Proportion r=1.35		Proportion r=1.84		Capacity (m³/h)	Head (m)	Proportion r=1.00		Proportion r=1.35		Proportion r=1.84	
				Motor power and model								Motor power and model					
				(KW)		(KW)		(KW)				(KW)		(KW)		(KW)	
DCZ200-250	A								600	12	30	200L-4	37	225S-4			
	B								540	11							
	C								400	10	22	180L-4	30	200L-4	37	225S-4	
DCZ200-315	A								650	24	55	250L-4	75	280S-4			
	B								600	20							
	C								550	16	37	225S-4	45	225M-4			
	D								500	13	30	200L-4	37	225S-4	55	250L-4	
DCZ200-400	A								650	52	132	315M1-4					
	B								550	45	90	280M-4	132	315M1-4			
	C								500	40	75	280S-4	110	315S-4	160	315M2-4	
	D								450	30	55	250S-4	75	280S-4	110	315S-4	
DCZ200-500	A								700	75							
	B								650	65	160	315M2-4					
	C								550	55	110	250M-4	160	315M2-4			
	D								450	40	75	280S-4	110	315S-4	132	315M2-4	
DCZ250-315	A								950	22			110	315S-4			
	B								900	20	75	280S-4	90	280S-4			
	C								800	16	55	250M-4	75	280M-4			
	D																
DCZ250-400	A								1000	44	160	315M2-4					
	B								900	38	132	315M1-4					
	C								850	30	110	315S-4	160	315M2-4			
	D								800	24	90	280M-4	110	315S-4	160	315M2-4	
DCZ250-500	A								1200	80							
	B								1100	70							
	C								1000	55							
	D								850	45	160	315M2-4					
DCZ300-400	A								1500	40							
	B								1400	30	160	315M2-4					
	C								1300	25	132	315M1-4					
	D								1300	20	110	315S-4	160	315M2-4			
DCZ300-500	A								1700	70							
	B								1500	60							
	C								1300	50							
	D								1100	40							



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