

2-5CR

60 Hz

**MULTI-STAGE
CENTRIFUGAL PUMPS**



2-5CR

Centrifugal Pumps



2-5CR
Impellers: Stainless
Steel AISI 304



2-5CR X
Impellers: Noryl



Clean Water



Residential



Commercial

FEATURES AND BENEFITS

- Clean water that does not contain abrasive particles
- Liquids that are not chemically aggressive
- Quiet

APPLICATIONS AND MARKETS

- Domestic
- Residential
- Irrigation
- Water Distribution
- Water Well Service
- Pressure Boosting Systems
- OEM Equipment
- Small/Medium Pressure Tanks

CONSTRUCTION & SAFETY STANDARDS

EN 60335-1, IEC 60335-1, CEI 61-150,
EN 60034-1, IEC 60034-1, CEI 2-3

CERTIFICATIONS

Company with management system
certified DNV ISO 9001: QUALITY



OPTIONS AVAILABLE ON REQUEST

- Pump Body with GAS ANSI B 1.20.1 Threaded Ports
- Special Mechanical Seals
- Other Voltages Available

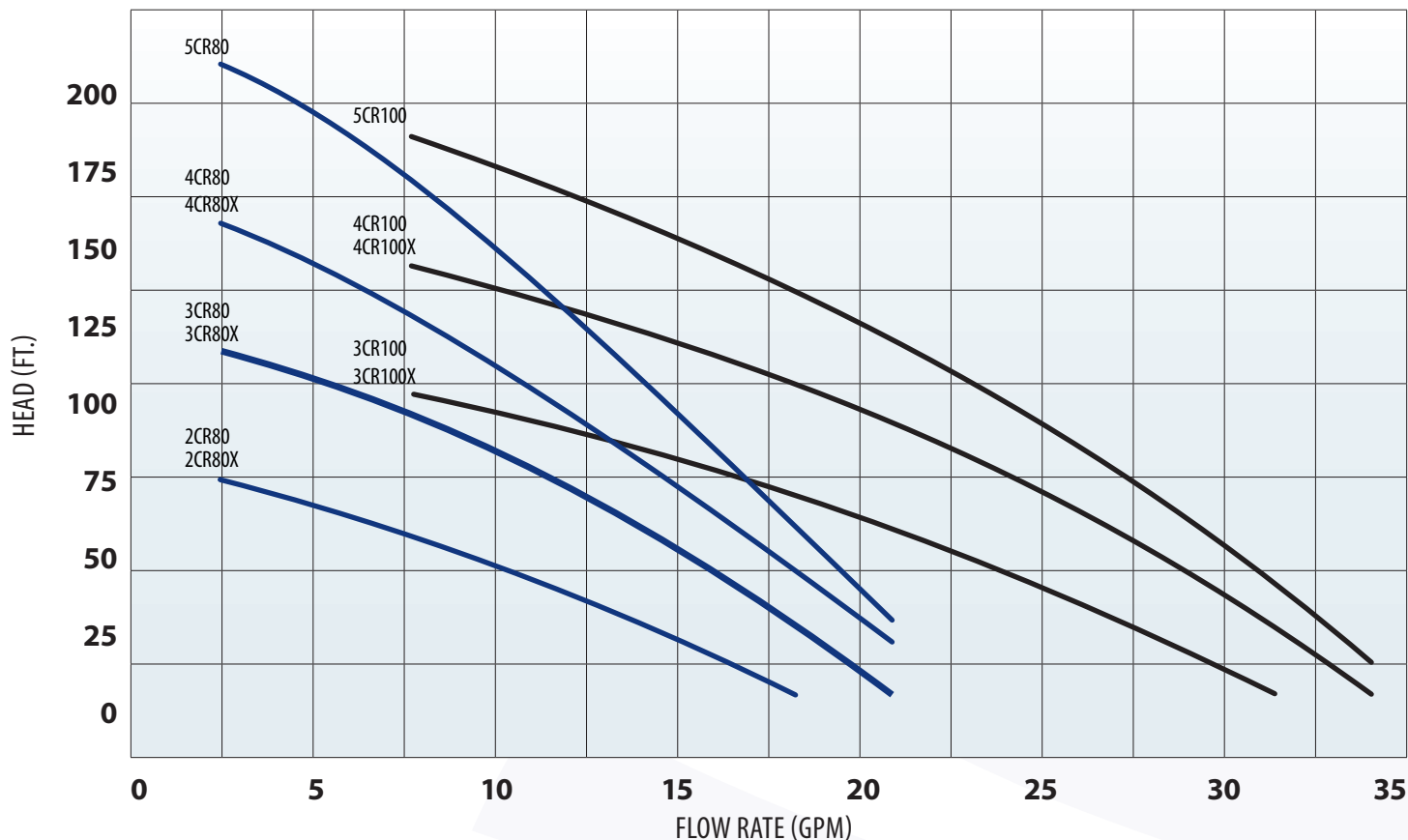
	2-5CR	2-5CR X
PERFORMANCE RANGE		
Max. Flow	34 GPM (130 l/min)	
Max. Head	219 feet (67 m)	
APPLICATION LIMITS		
Max. Suction Lift	22 ft. (7 m)	
Liquid Temp.	14°F (-10°C) - 140°F (60°C)	14°F (-10°C) - 104°F (40°C)
Ambient Temp. (up to)	104°F (+40°C)	
Max. Working Pressure	101 PSI (7 bar)	
Continuous Duty Rating	S1	

2 YEAR
LIMITED
WARRANTY

2-5CR

CURVES AND PERFORMANCE DATA

60 Hz RPM = 3450



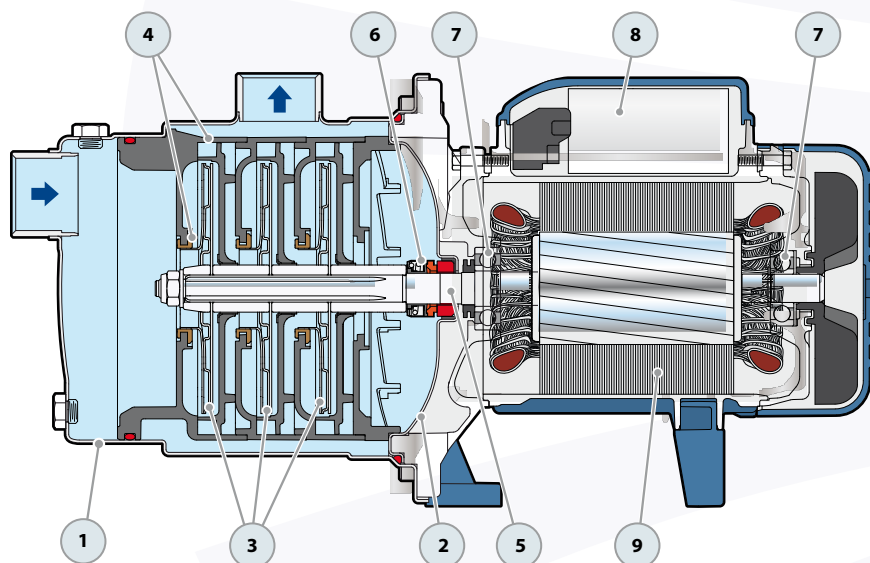
MODEL		MOTOR SIZE																				
SINGLE-PHASE	THREE-PHASE	kW	HP	EFF	GPM	0	1.3	2.6	3.9	5.3	6.6	7.9	10.6	13.2	15.8	18.5	21.1	23.8	26.4	29.1	31.7	34.3
2CRm 80 2CRm 80X	2CR 80 2CR 80X	0.37	0.50	IE2	HEAD (feet)	88	85	82	78	73	68	65	54	42	29	16	-	-	-	-	-	-
3CRm 80 3CRm 80X	3CR 80 3CR 80X	0.45	0.60			131	124	121	118	113	108	101	88	73	55	36	16	-	-	-	-	-
4CRm 80 4CRm 80X	CR 80 4CR 80X	0.55	.75			170	164	160	154	145	137	131	111	93	73	52	32	-	-	-	-	-
5CRm 80	5CR 80	0.75	1.00	IE3		219	216	209	203	199	183	173	149	123	96	67	39	-	-	-	-	-
3CRm 100 3CRm 100X	3CR 100 3CR 100X	0.50	0.75	IE2		124	121	118	114	113	109	101	91	85	75	65	55	44	32	16	-	-
4CRm 100 4CRm 100X	4CR 100 4CR 100X	0.75	1.00	IE3		164	164	160	157	154	150	147	137	129	121	111	100	86	72	55	36	16
C5CRm 100	CP 650M	1.10	1.50			206	203	201	198	195	190	187	175	165	152	139	124	108	91	72	49	26

EFF = Three-phase motor efficiency class (IEC 60034-30-1)

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

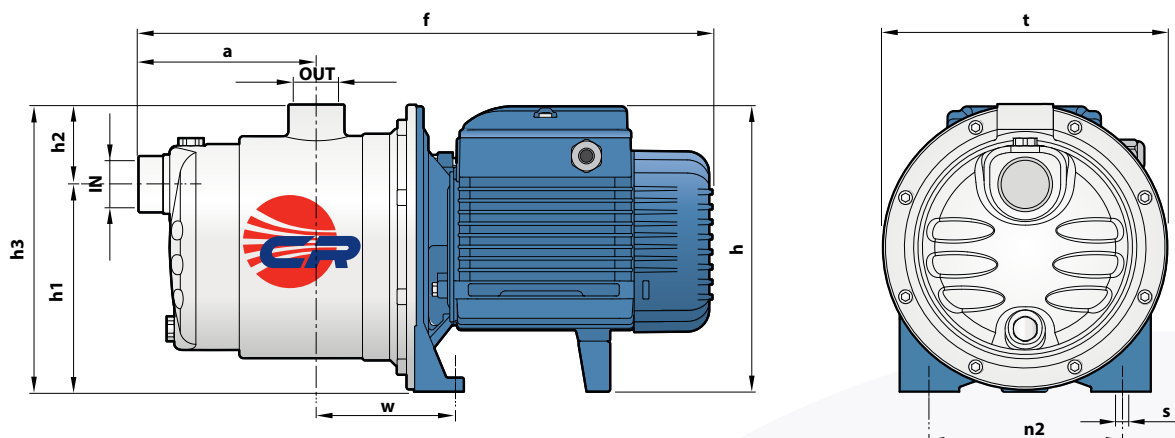
CONSTRUCTION FEATURES

#	COMPONENT	CHARACTERISTICS				
1	PUMP BODY	Stainless steel AISI 304 complete with threaded ports in compliance with ISO 228/1				
2	BODY BACKPLATE	Stainless steel AISI 304				
3	IMPELLER	Stainless steel AISI 304				
4	DIFFUSERS	Noryl complete with anti-wear ring				
5	MOTOR SHAFT	Stainless steel AISI 431				
6	MECHANICAL SEAL	PUMP	SHAFT	MATERIALS		
		Model	Diameter	Stationary Ring	Rotational Ring	Elastomer
		AR-13	0.5 in.	Ceramic	Graphite	NBR
7	BEARINGS	PUMP	MODEL			
		2CR 80	6202 ZZ - C3 / 6201 ZZ			
		3CR 80				
		4CR 80				
		3CR 100				
		4CR 100				
		5CR 80	6203 ZZ / 6203 ZZ			
		5CR 100				
8	CAPACITOR	PUMP	Capacitance			
		Single-phase	(230 V)		(110 V or 127 V)	
		2CRm 80	10	μF - 450 VL	25	μF - 250 VL
		3CRm 80	12.5	μF - 450 VL	25	μF - 250 VL
		4CRm 80	14	μF - 450 VL	25	μF - 250 VL
		3CRm 100				
		4CRm 100	20	μF - 450 VL	60	μF - 300 VL
		5CRm 80				
		5CRm 100				
			25	μF - 450 VL	60	μF - 300 VL
9	ELECTRIC MOTOR	2-5CRm: single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding. 2-5CR: three-phase 220/380 V - 60 Hz or 230/460 V - 60 Hz. ► The three-phase pumps are fitted with high performance motors up to P2=0.75 HP in class IE2 and from P2=1 HP in class IE3 (IEC 60034-30-1) • Insulation: Class F • Protection: IP X4				



2-5CR

DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS (IN.)										LBS.	
Single-phase	Three-phase	IN	OUT	a	f	h	h1	h2	h3	t	n2	w	s	Single-phase	Three-phase
2CRm 80	2CR 80	1 in.	1 in.	4.4	14.4	7.2	5.2	2.0	7.2	7.1	4.7	3.4	0.3	14.7	14.7
3CRm 80	3CR 80													16.9	16.9
4CRm 80	4CR 80													19.6	18.1
5CRm 80	5CR 80			5.4	15.4	7.9*							0.4	26.9	25.4
3CRm 100	3CR 100			4.4	14.4									7.2	0.3
4CRm 100	4CR 100			5.4	16.1	7.9*							0.4	24.9	24.7
5CRm 100	5CR 100													26.9	25.4

(*) **h = 8.7 in** (221 mm) for single-phase versions at 115 V

ABSORPTION

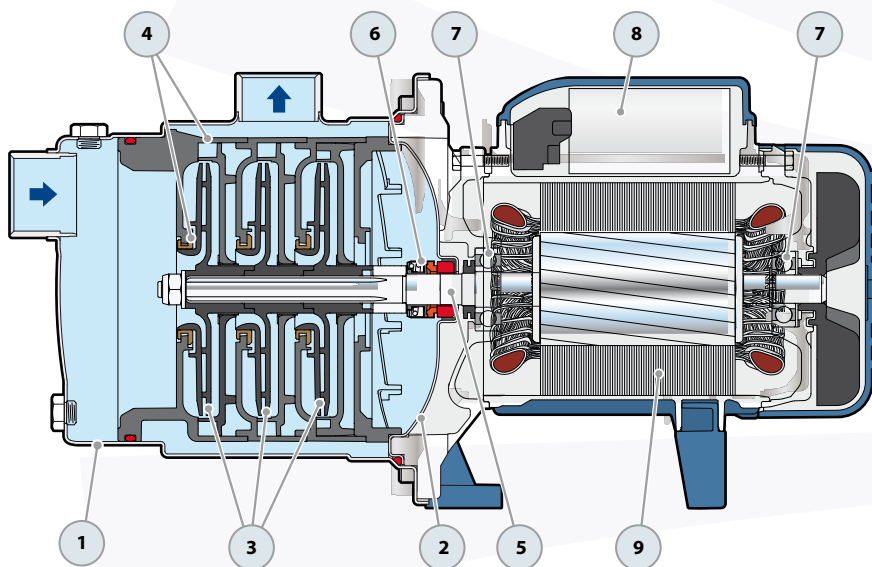
MODEL	VOLTAGE		
Single-phase	230 V	115 V	127 V
2CRm 80	2.5 A	5.0 A	4.3 A
3CRm 80	3.4 A	6.9 A	5.9 A
4CRm 80	4.5 A	9.0 A	7.8 A
5CRm 80	6.0 A	12.0 A	10.4 A
3CRm 100	5.0 A	10.0 A	9.5 A
4CRm 100	6.2 A	12.0 A	10.7 A
5CRm 100	6.6 A	13.2 A	11.4 A

MODEL	VOLTAGE			
Three-phase	230 V	380 V	230 V	460 V
2CR 80	1.7 A	1.0 A	1.7 A	1.0 A
3CR 80	2.3 A	1.3 A	2.4 A	1.3 A
4CR 80	3.0 A	1.7 A	2.3 A	1.3 A
5CR 80	5.0 A	2.9 A	4.1 A	2.3 A
3CR 100	3.0 A	1.7 A	2.9 A	1.7 A
4CR 100	4.5 A	2.6 A	4.1 A	2.3 A
5CR 100	4.8 A	2.8 A	4.5 A	2.6 A

2-5CR X

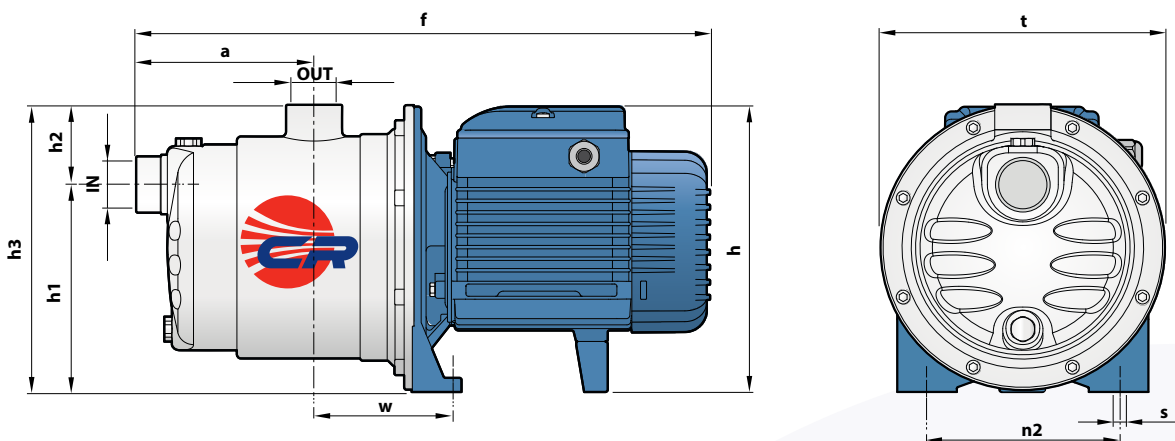
CONSTRUCTION FEATURES

#	COMPONENT	CHARACTERISTICS				
1	PUMP BODY	Stainless steel AISI 304 complete with threaded ports in compliance with ISO 228/1				
2	BODY BACKPLATE	Stainless steel AISI 304				
3	IMPELLER	Noryl				
4	DIFFUSERS	Noryl complete with anti-wear ring				
5	MOTOR SHAFT	Stainless steel AISI 431				
6	MECHANICAL SEAL	PUMP	SHAFT	MATERIALS		
		<i>Model</i>	<i>Diameter</i>	<i>Stationary Ring</i>	<i>Rotational Ring</i>	<i>Elastomer</i>
		AR-13	0.5 in.	Ceramic	Graphite	NBR
7	BEARINGS	PUMP	MODEL			
		2CR 80X	6202 ZZ - C3 / 6201 ZZ			
		3CR 80X				
		4CR 80X				
		3CR 100X	6203 ZZ / 6203 ZZ			
		4CR 100X				
8	CAPACITOR	PUMP	Capacitance			
		<i>Single-phase</i>	(230 V)	(115 or 127 V)		
		2CRm 80X	10 μF - 450 VL	25 μF - 250 VL		
		3CRm 80X	12.5 μF - 450 VL	25 μF - 250 VL		
		4CRm 80X	14 μF - 450 VL	25 μF - 250 VL		
		4CRm 100X	20 μF - 450 VL	60 μF - 300 VL		
		9	ELECTRIC MOTOR	2-5CRm X: single-phase 230 V - 60 Hz with thermal overload protector incorporated into the winding. 2-5CR X: three-phase 220/380 V - 60 Hz or 230/460 V - 60 Hz. ▮The three-phase pumps are fitted with high performance motors up to P2=.75 HP in class IE2 and from P2=1 HP in class IE3 (IEC 60034-30-1) Insulation: class F IProtection: IP X4		



2-5CRX

DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS (IN.)										LBS.	
Single-phase	Three-phase	IN	OUT	a	f	h	h1	h2	h3	t	n2	w	s	Single-phase	Three-phase
2CRm 80X	2CR 80X	1 in.	1 in.	4.4	14.4	7.2	5.2	2.0	7.2	7.1	4.7	3.4	0.3	14.1	14.1
3CRm 80X	3CR 80X			15.8	15.8										
4CRm 80X	4CR 80X			18.1	16.5										
3CRm 100X	3CR 100X			4.4	14.4	7.9*							0.3	17.4	15.8
4CRm 100X	4CR 100X			5.4	16.1									0.4	23.4

(*) **h = 8.7 in** (221 mm) for single-phase versions at 115 V

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	115 V	127 V
2CRm 80X	2.5 A	5.0 A	4.3 A
3CRm 80X	3.4 A	6.9 A	5.9 A
4CRm 80X	4.5 A	9.0 A	7.8 A
3CRm 100X	5.0 A	10.0 A	9.5 A
4CRm 100X	6.2 A	12.0 A	10.7 A

MODEL	VOLTAGE			
Single-phase	230 V	380 V	230 V	460 V
2CR 80X	1.7 A	1.0 A	1.7 A	1.0 A
3CR 80X	2.3 A	1.3 A	2.4 A	1.3 A
4CR 80X	3.0 A	1.7 A	2.3 A	1.3 A
3CR 100X	3.0 A	1.7 A	2.9 A	1.7 A
4CR 100X	4.5 A	2.6 A	4.1 A	2.3 A



Pedrollo Group USA
45 Maryland Ave. East, St. Paul, MN 55117
customer.service@pedrollogroupusa.com | www.pedrollogroupusa.com
© Pedrollo Group