



HORIZONTAL BOOSTER PUMP

SQ- CR Range **50Hz**

HIGH EFFICIENCY
HIGH PERFORMANCE
STAINLESS STEEL



WATER SUPPLY SYSTEM

WASHING SYSTEM

INDUSTRIAL PLANTS

IRRIGATION SYSTEM

WATER TREATMENT SYSTEM

SPRINKLER

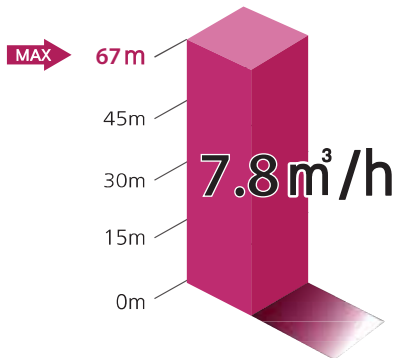
Rethinking Water

SQ-CR



SPECIFICATION

- Max. Flow(Q) : 7.8 m³/h
- Max .Head(H) : 67 m
- Motor Power : 0.75 kW
- Input Power : 1Φ×200V~230V / 50Hz



SQ-CR Range

SQ-CR water boosting range are built on the basis of Pedrollo CR pumps. The main difference between the CR pumps and the SQ-CR system is the variable frequency drive (SQ Drive). Enhanced with the SQ-Drive the CR pump together with the appropriate pressure sensor are turned into an intelligent, variable speed pumping system. The SQ-Drives are frequency converter integrated into the pump which adjusts motor speed so as to constantly provide users with the constant pressure or differential pressure to the flow rate.

APPLICATION

- Pressure boosting systems
- Domestic water supply systems
- Cooling systems
- Air-conditioning systems
- Horticultural irrigation systems
- Small industrial water supply systems

BENEFITS

The SQ-CR booster system offers the following benefits:

Maintains constant pressure

- Regardless of fluctuating demand.

Energy saving up to 50%

- Variable speed based on water demand.

Extends life of pump and motor

- Soft start functionality to minimize mechanical stress on pumping system.

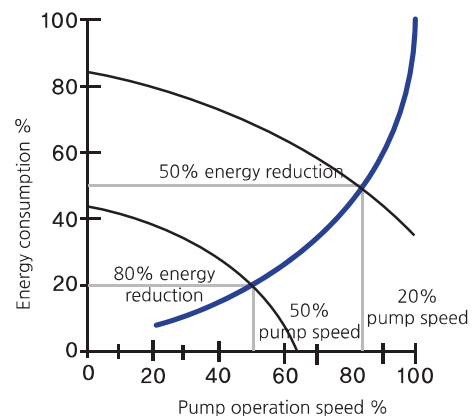
Simplicity

- Eliminates the need for a separate control panel, bypass-lines and control valves.

FUNCTIONS

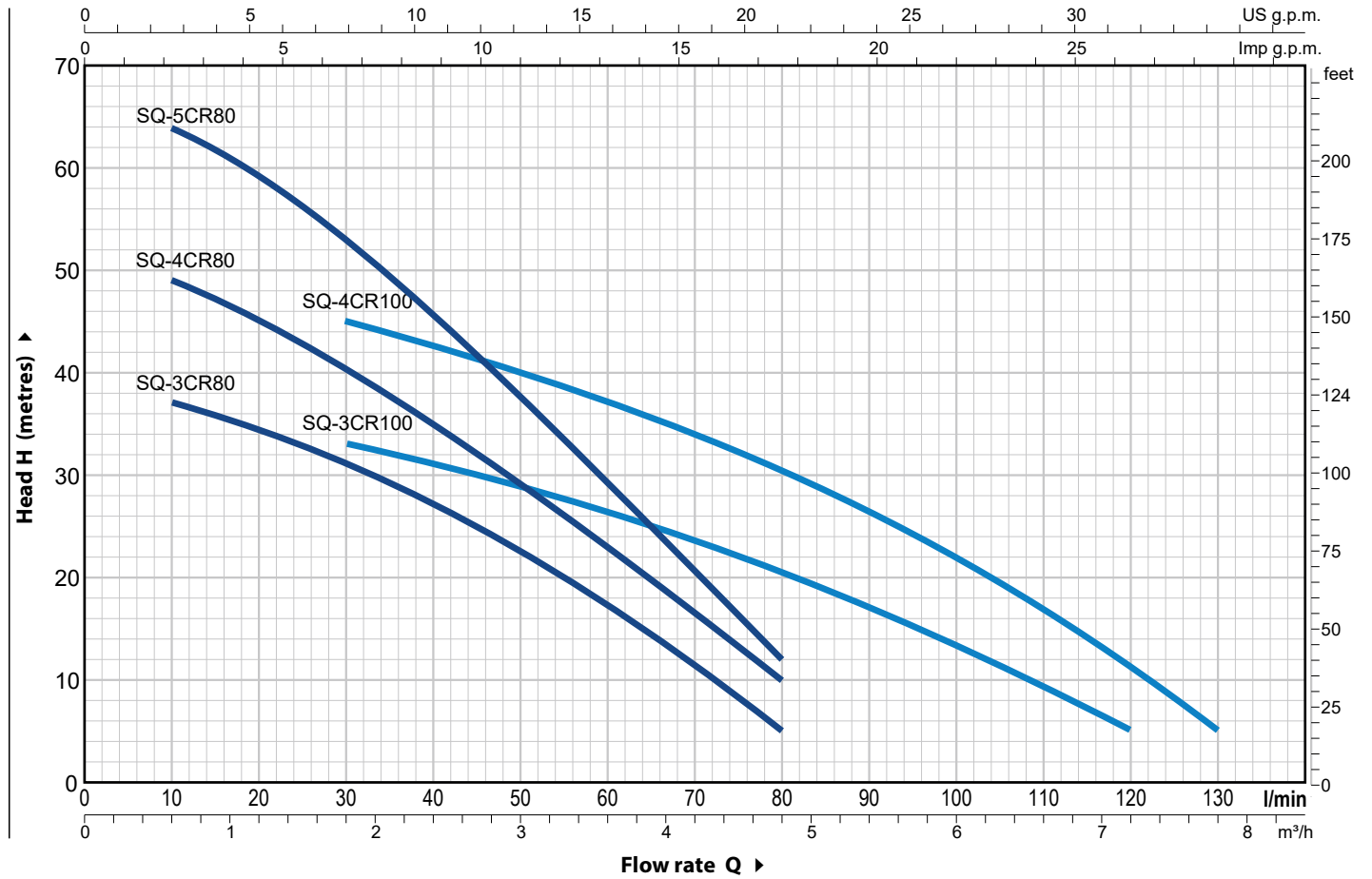
- Constant discharge pressure
- Dry running protection Min.
- Flow stop
- Operation monitoring
- Fault history
- RS485 service interface

ENERGY CONSUMPTION CURVE AT VARYING PUMP SPEED



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm HS= 0 m



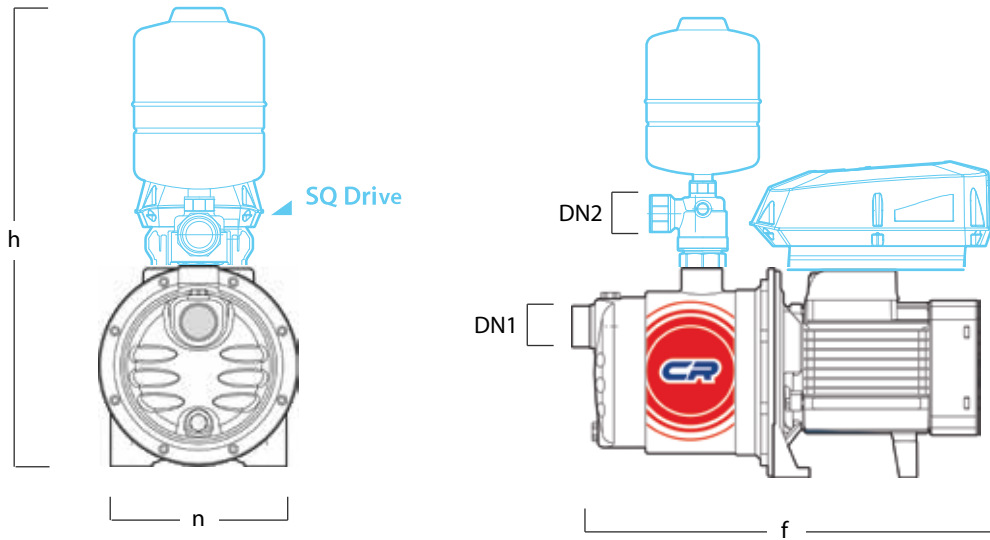
CODE	MODEL	POWER (P ₂)		Q	Flow rate																	
		kW	HP		m ³ /h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8
				H metres	0	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	
1030892	SQ-3CR 80	0.45	0.60		40	38	37	36	34.5	33	31	27	22.5	17	11	5						
1030495	SQ-4CR 80	0.55	0.75		52	50	49	47	44.5	42	40	34	28.5	22.5	16	10						
1030893	SQ-5CR 80	0.75	1		67	66	64	62	59	56	53	45.5	37.5	29.5	20.5	12						
1030494	SQ-3CR 100	0.55	0.75		38	37	36	35	34.5	33.5	33	31	28	26	23	20	17	13.5	10	5		
1030895	SQ-4CR 100	0.75	1		50	50	49	48	47	46	45	42	39.5	37	34	30.5	26.5	22	17	11	5	

Q = Flow rate H = Total manometric head HS = Suction height

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

* 230V/1PH/50Hz Power supply

INSTALLATION SKETCH




PORTS		DIMENSIONS mm			kg
DN1	DN2	f	h	n	
1"	1"	440	510	190	15.5

MODEL NAME (CR Range)

SQ - **3CR80-N**

Pump Type

Built-in VFD
SQ: SQ DRIVE


MODEL	SQ-DRIVE (SINGLE PHASE)
Features	
Specification	Motor Power: 0.55~1.1kW Input: 1PH/ 200~230V(0.55~1.1kW) Output: 3PH/ 220V Frequency: 50 Hz


eps


Rethinking Water

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