

DOOCH

HORIZONTAL BOOSTER PUMP

SQ-DHF 50Hz

HIGH EFFICIENCY
HIGH PERFORMANCE
STAINLESS STEEL



WATER SUPPLY SYSTEM

WASHING SYSTEM

INDUSTRIAL PLANTS

IRRIGATION SYSTEM

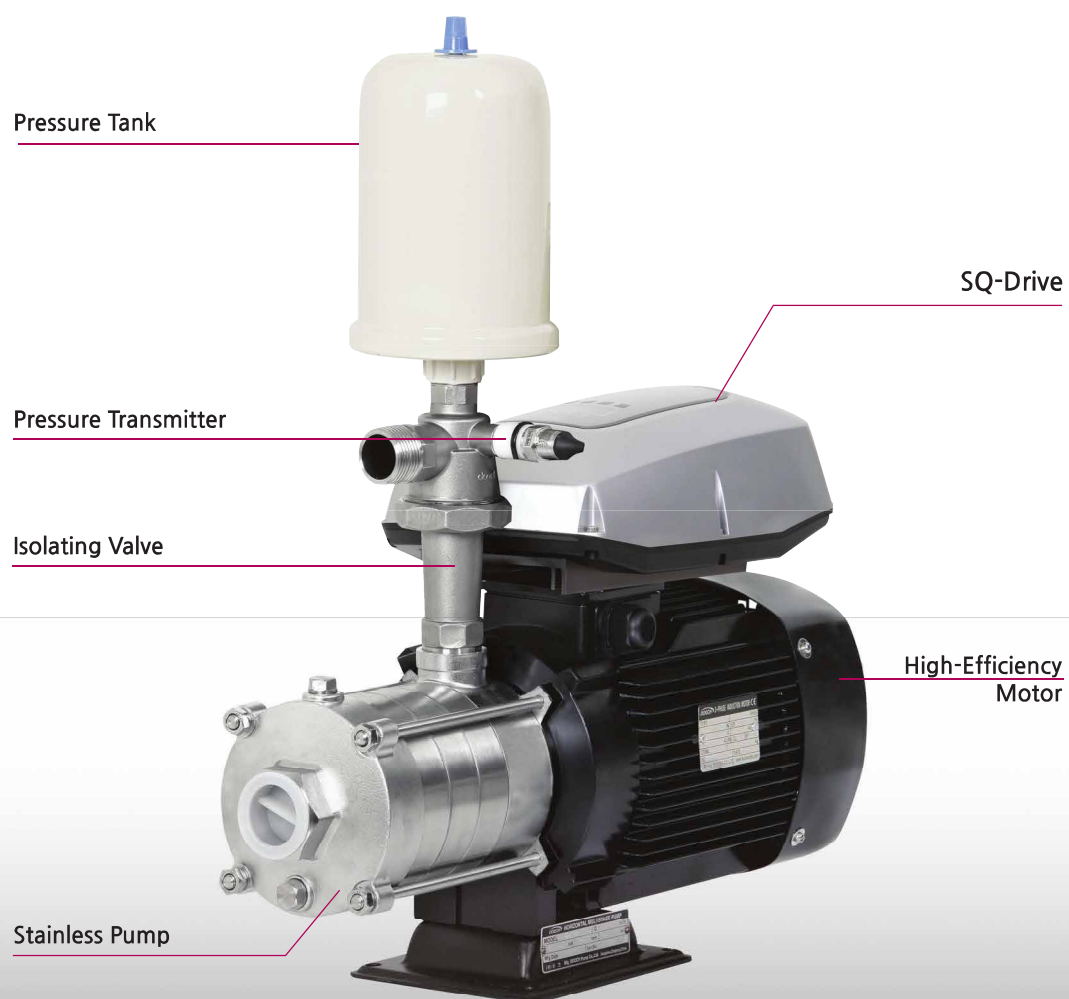
WATER TREATMENT SYSTEM

SPRINKLER

dooch

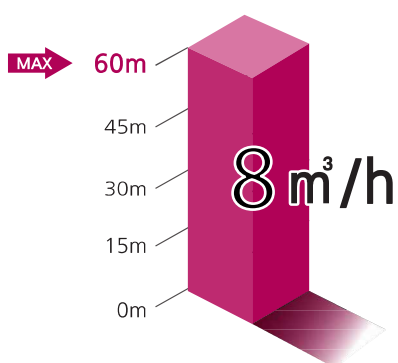
Contact

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SQ-DHF

SPECIFICATION

- Max. Flow(Q) : 8 m³/h
- Max .Head(H) : 60m
- Motor Power : 1.1kW
- Input Power : 1Φ×200V~230V / 50Hz
- Output Power : 3Φ×200V~230V / 50Hz



APPLICATION

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

FUNCTIONS

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

SQ-DHF SERIES

SQ-DHF pumps are built on the basis of DHF pumps. The main difference between the DHF and SQ-DHF pump is the variable frequency drive(SQ-Drive). Enhanced with SQ-Drive, the DHF pump together with the appropriate sensor is 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.

BENEFITS

The SQ-DHF pumps offer these obvious benefits.

Maintains constant pressure

- Regardless of fluctuating demand.

Energy saving up to 50%

- Variable speed based on water demand.

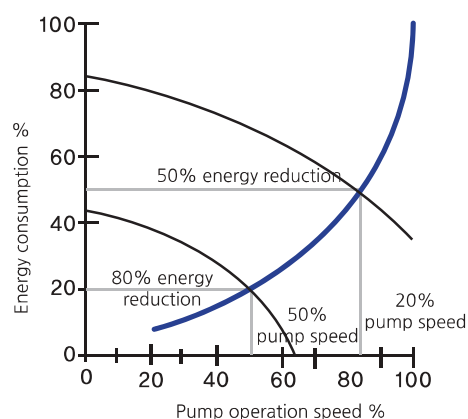
Extends life of pump and motor

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

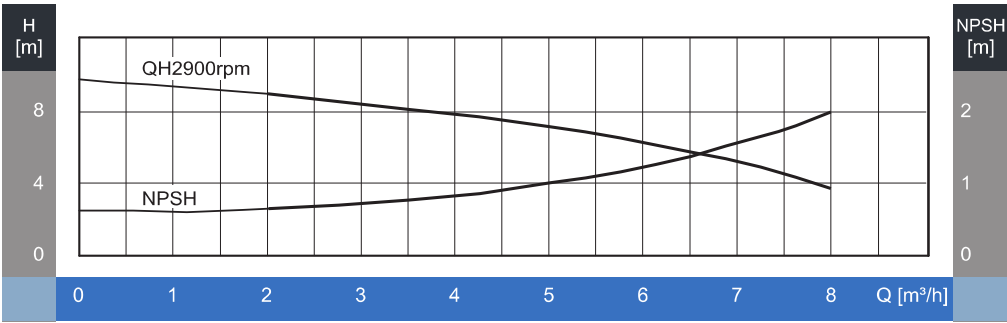
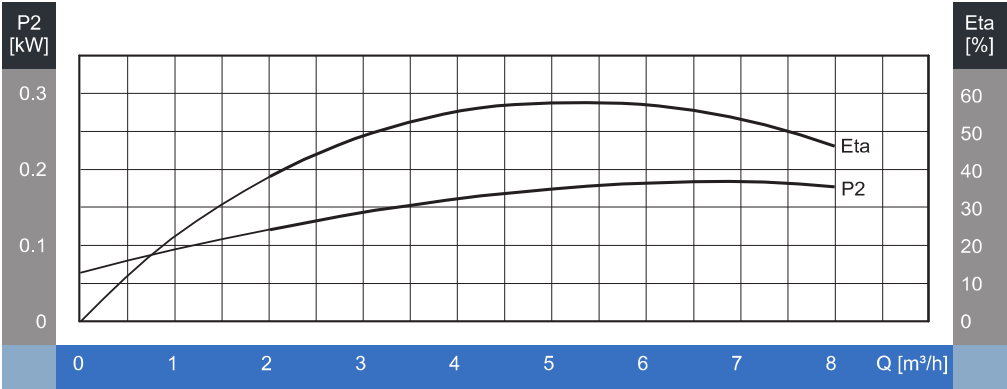
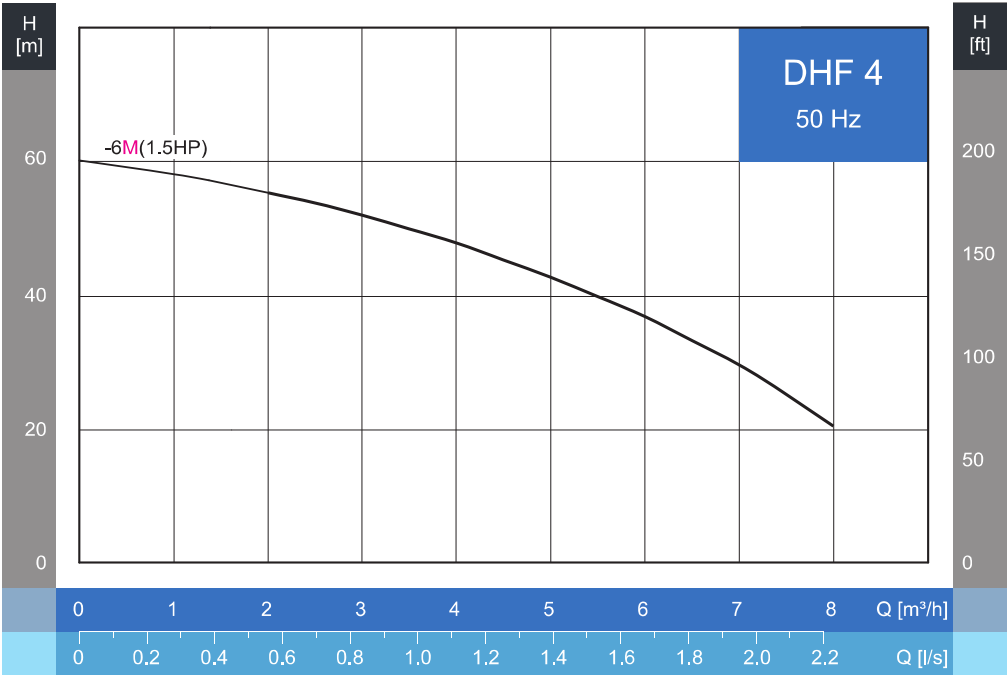
Simplicity

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

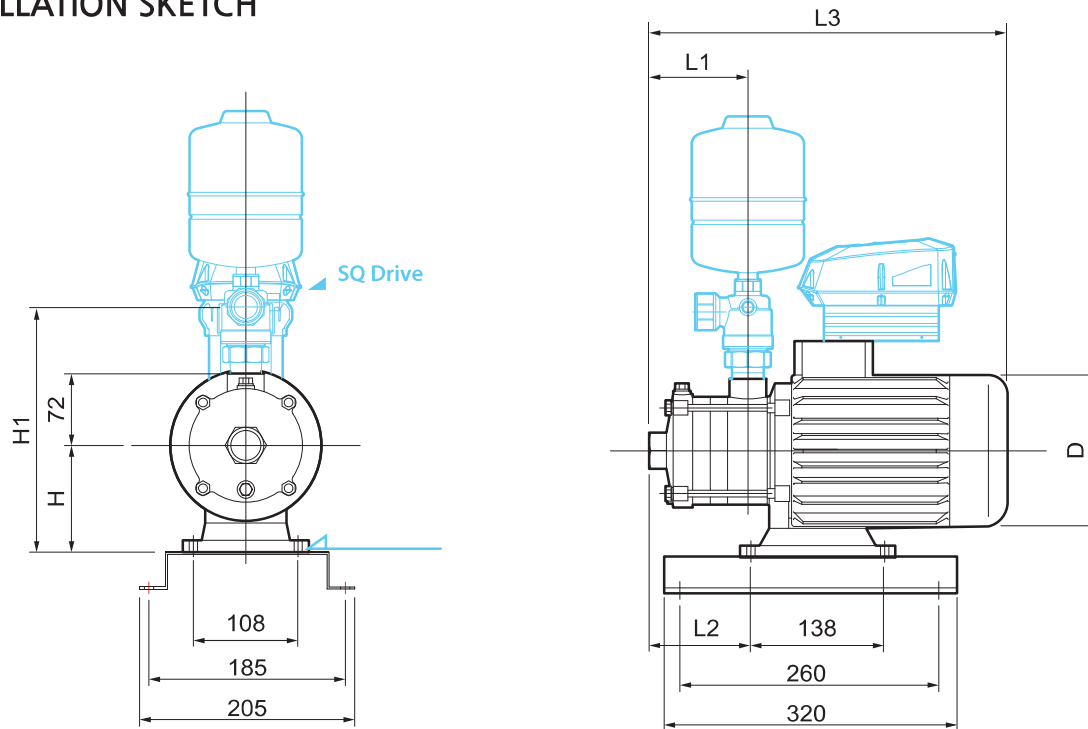
ENERGY CONSUMPTION CURVE AT VARYING PUMP SPEED



DHF 4 SERIES



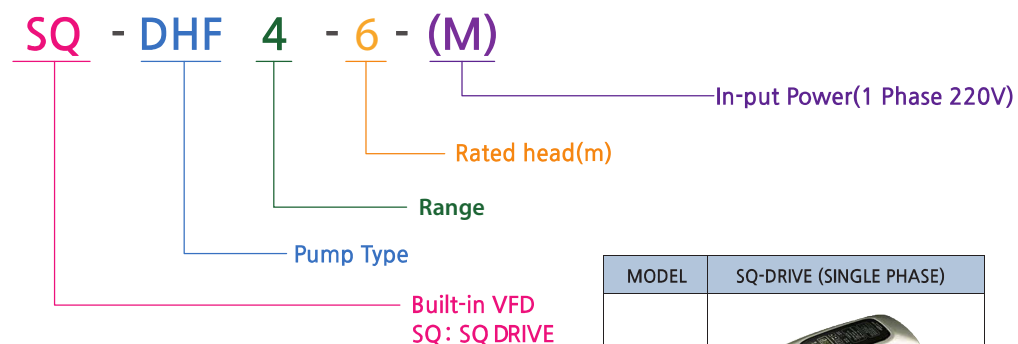
INSTALLATION SKETCH



DIMENSIONS / WEIGHT

MODEL	BORE		MOTOR		DIMENSION (UNIT: mm)						PRESSURE TANK(L)	WEIGHT(kg)
	INLET	OUTLET	kW	HP	L1	L2	L3	H	H1	D		
SQ-DHF4-6M	32A	32A	1.1	1.5	211	214	496.5	110	315	175	1	26.8

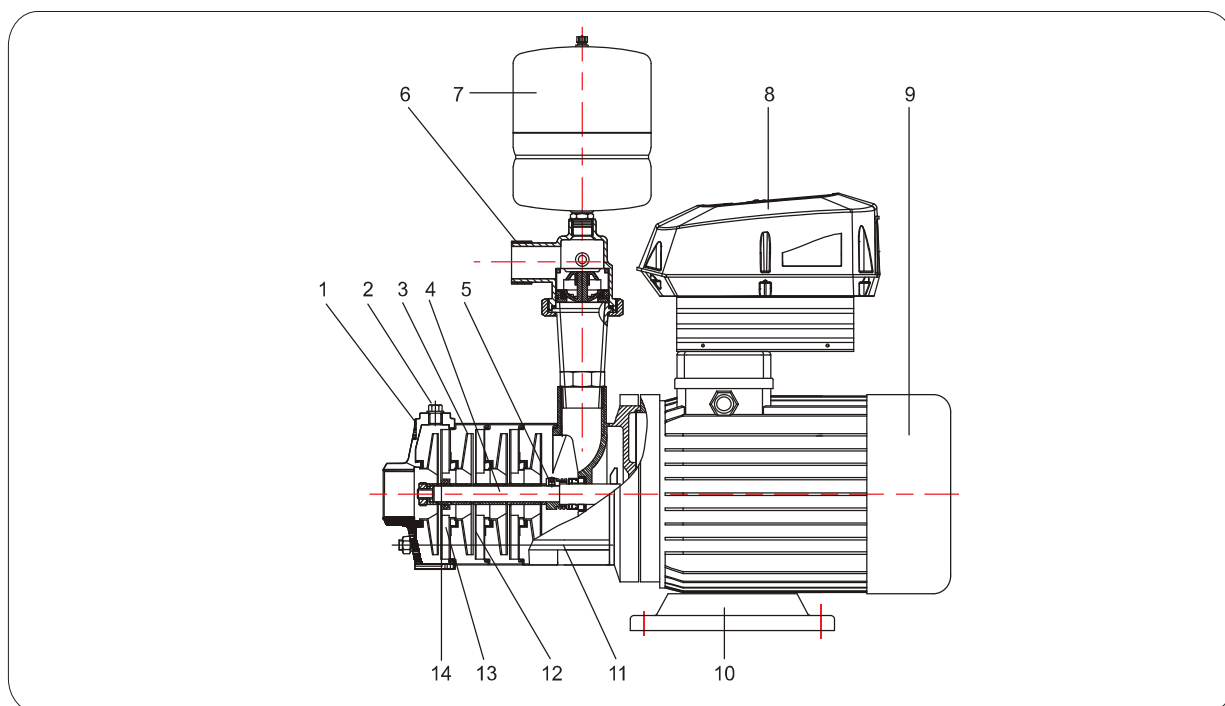
MODEL NAME (DHF SERIES)



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



SECTIONAL DRAWING



MATERIALS

NO.	PARTS	MATERIAL	AISI/ASTM
1	Inlet Casing	Stainless steel	CF 8 (AISI304)
2	Air Vent Valve	Stainless steel	AISI304
3	Impeller	Stainless steel	AISI304
4	Shaft	Stainless steel	AISI304
5	Mechanical seal		
6	T-Check Valve	Stainless steel	AISI304
7	Pressure Tank	Stainless steel water connection	
8	V.F.D.		
9	Motor		
10	Base Plate	Steel	AISI1015
11	Bolt	Stainless steel	AISI304
12	Diffuser	Stainless steel	AISI304
13	Support Diffuser	Stainless steel	AISI304
14	Sleeve	Stainless steel	AISI304

