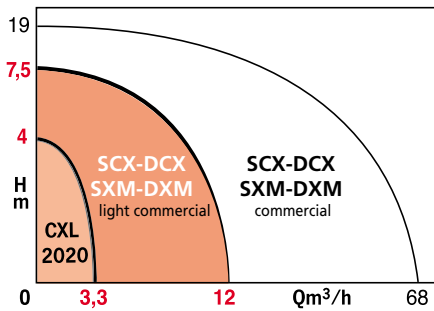


OPERATING LIMITS

Flow up to :	12 m ³ /h
Heads up to:	75 m
Max. operating pressure:	10 bar
Temperature range :	- 20° to + 130°C*
Max. temperature ambient:	+ 40°C
ND of ports :	32 and 40

* except CXL 2020 : - 20 to + 110°C

Replace CXL



* See NT 122-21

SCX-DCX SXM-DXM

SINGLE AND TWIN-HEAD CIRCULATORS

Heating and air conditioning
Light commercial range
2 Pole - 50 Hz

APPLICATIONS

Hot water and chilled water circulation into:

- Heating systems.
- Air-conditioning systems.

For light commercial range, pools,

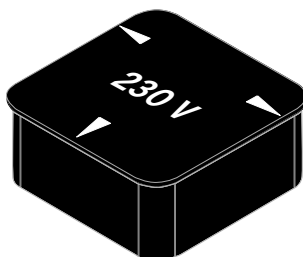
greenhouses, farms, etc.
For new and old (renovation) installations, extensions.



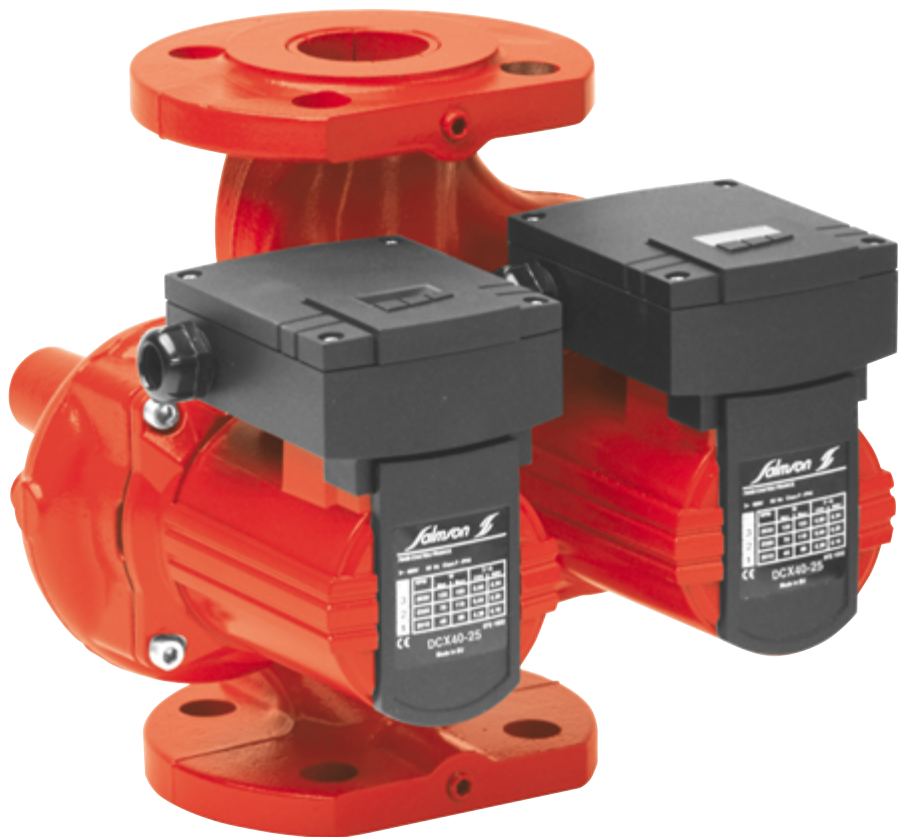
• DCX-DXM



• SCX-SXM



• Speed selector 3~230 V (option)



• DCX -DXM

SCX-DCX SXM-DXM

BENEFITS

CONVENIENCE

- Silent operation.
- Integrated and automatic motor overload protection.
- Speed visualisation through the covers'window*.
- No maintenance.
- Automatic venting of rotor chamber.
- Twin head pump : standby pump available at all times or possibility of operating the two pumps in parallel for lower purchase and operating costs.

EASY SELECTION

- Large choice of performances (8 single head models and 9 twin models).
- 3 running speeds for every model.
- Wide applications : air conditioning and heating.
- Dual voltage motor 230-400 V

RELIABILITY

- IP44* glandless pump.
- Corrosion resistance reinforced.

* except CXL 2020

DESIGN

Hydraulic part

Pump casing in-line with threaded ports (flanges PN 10 on DXM 40-25 and 40-45, DCX 40-25 and 40-45).

■ Twin heads models (DXM/DCX) : twin pumps in a single casing, hydraulic separation by double flap valve on discharge end.

■ Flanges models : bosses on rear for wall mounting, flanges fitted with pressure gauge ports.

• **Motor** : 2 pole, wet rotor, self lubricated bearings.

Single phase : 3 speeds per manual selector, integrated capacitor.

Three phase : dual voltage, 3 speeds by plug-in selector switch coupled to voltage (supplied in 400V, three phase 230V plug as an option)

Speed : see p.8

Winding : Single phase : 230 V
Three phase : 230-400 V

Frequency : 50 Hz
: 60 Hz *optional*

Protection : IP44

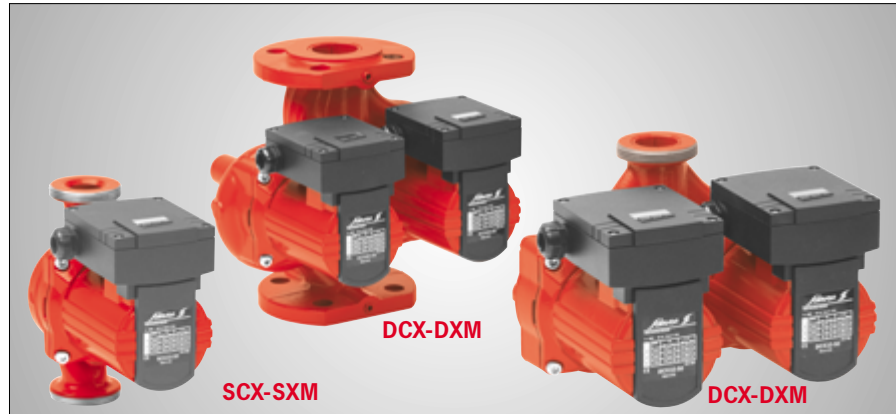
Insulation class : F

Conformity : CE

Immunity : EN 61000-6-2

Emission : EN 61000-6-3

THE 2 POLE CIRCULATORS LINES



SXM - DXM

Single & twin-head circulators

- Threaded ports G2 or flanges DN 40
- Single phase 230 V, winding motors with built-in capacitor.
- Voltage complying with standard.
- Built-in and automatic thermal overload protection.
- 3 speeds motor selected per manual selector.
- 4 single head models.
- 4 twin head models.

SCX - DCX

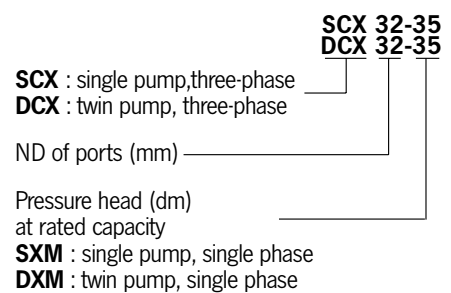
Single & twin-head circulators

- Threaded ports G2 or flanges DN 40
- Dual voltage motor 230-400V
- Voltage complying with standard.
- Built-in and automatic thermal overload protection.
- 3 speeds motor selected per manual selector.
- 4 single head models.
- 4 twin head models.

STANDARD CONSTRUCTION

Main parts	Material
Pump casing	Cast iron
Impeller	Composite material
Shaft	Stainless steel
Sleeve bearings	Graphite
Casing gaskets	Ethyl.-Propylene

PUMP IDENTIFICATION



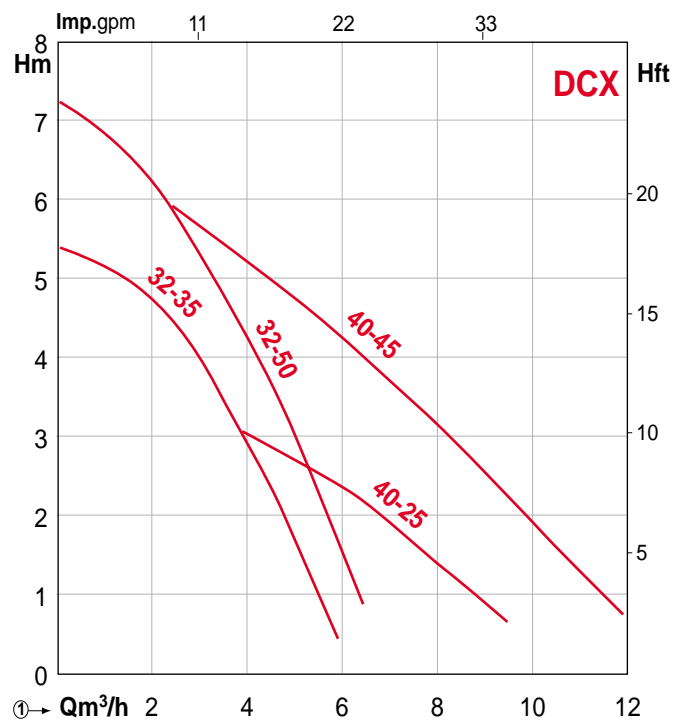
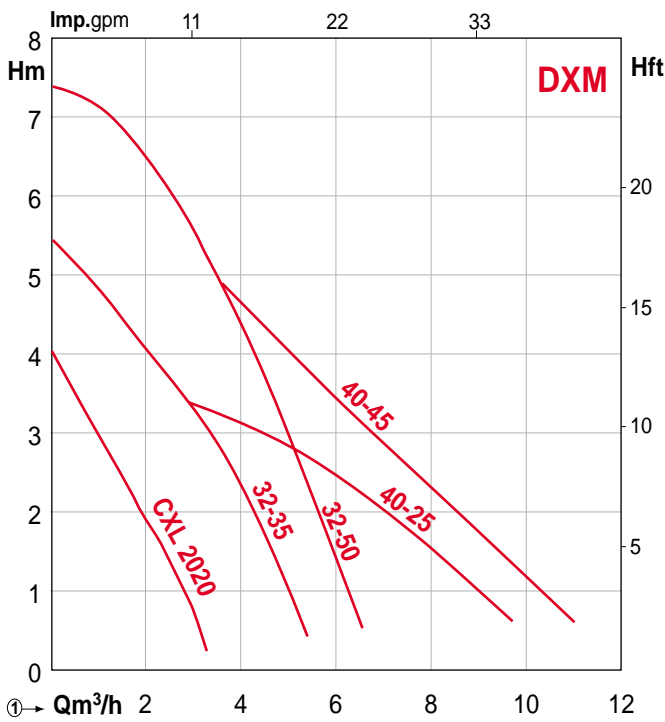
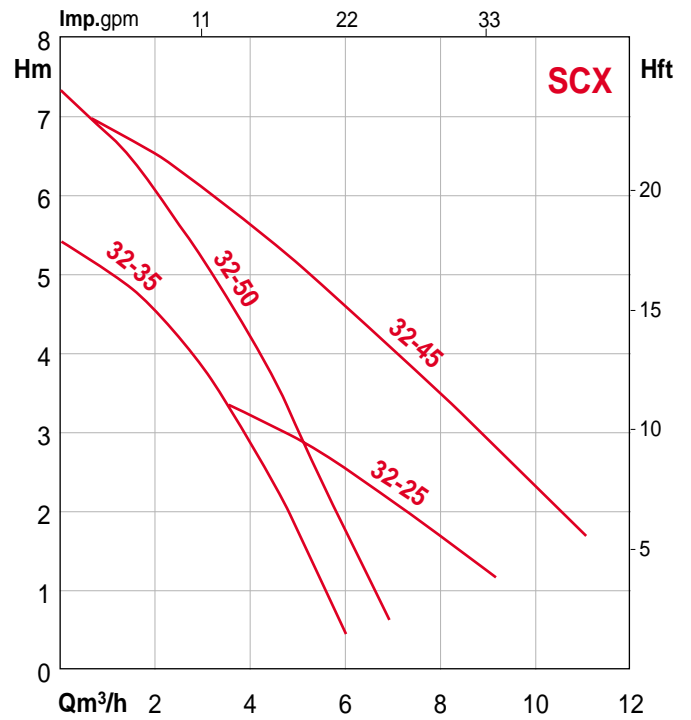
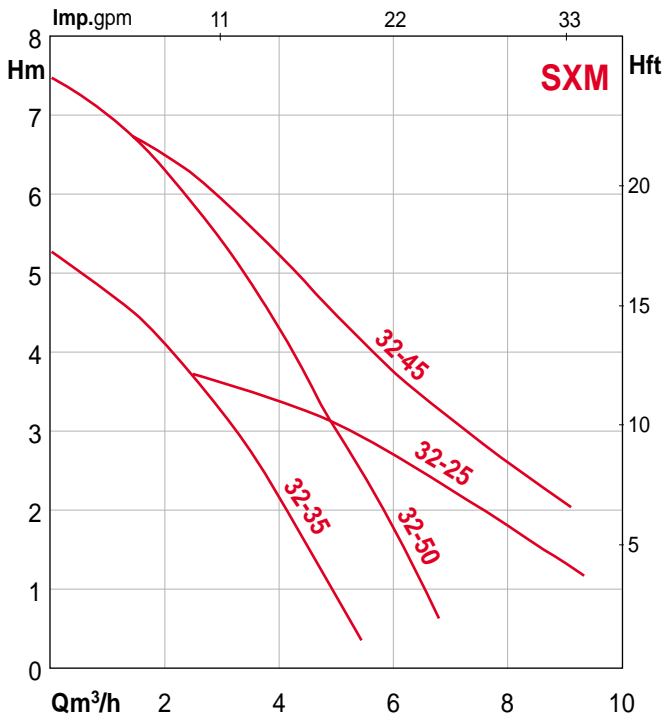
MINIMUM SUCTION PRESSURE (m.w.g.)

ACCORDING TO OPERATING TEMPERATURE

	50°C	95°C	110°C	130°C
All models				
SCX/SXM				
DCX/DXM	0,5m	5 m	11 m	24 m
CXL 2020		3 m	10 m	

NOTA : at high altitudes, add 0,60 m for every 500 m (10,2 m.w.g. = 1 bar)

GENERAL SELECTION GRAPHS AT MAXIMUM SPEED - 50 Hz



① → Qm³/h 2 4 6 8 10 12
 ② → Qm³/h 4 8 12 16 20 24
 ↳ 2 pumps in operation

① → Qm³/h 2 4 6 8 10 12
 ② → Qm³/h 4 8 12 16 20 24
 ↳ 2 pumps in operation

SCX-DCX SXM-DXM

SINGLE CIRCULATORS

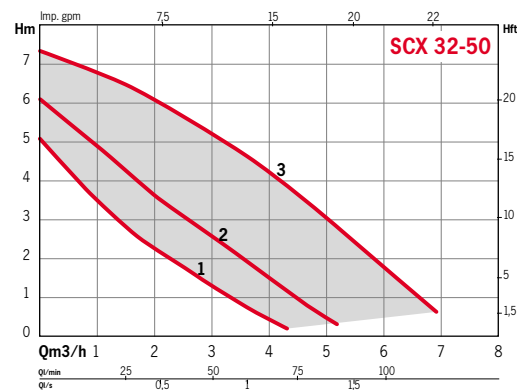
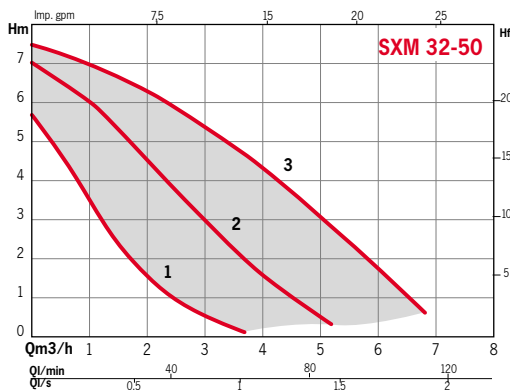
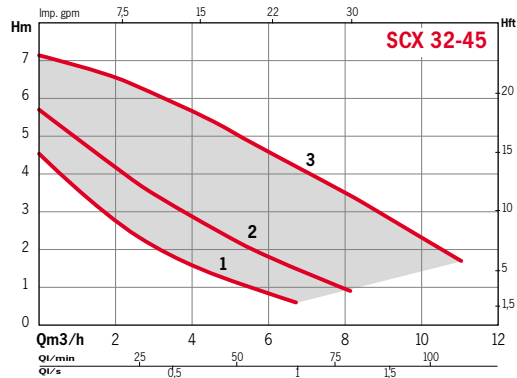
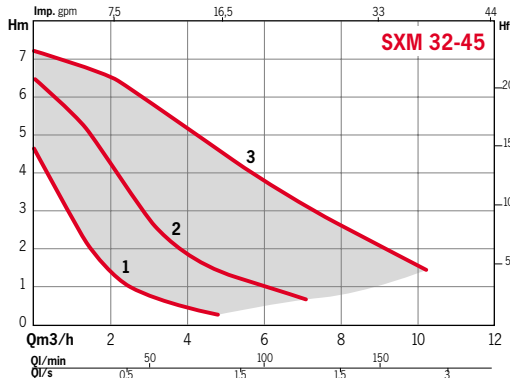
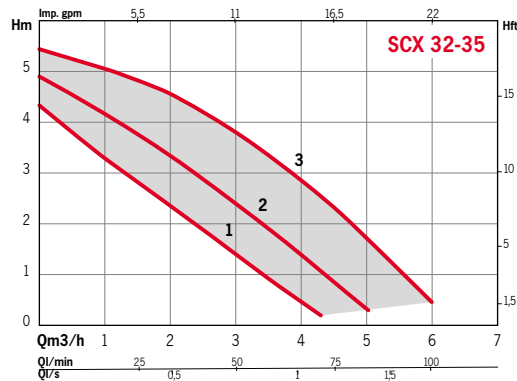
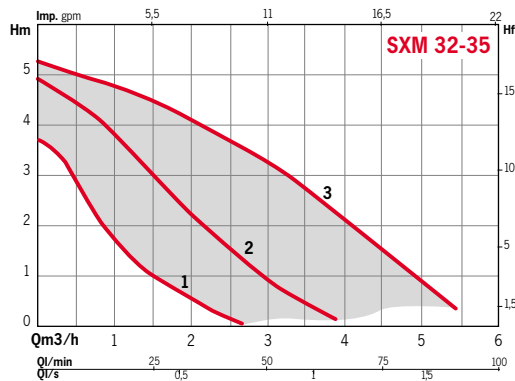
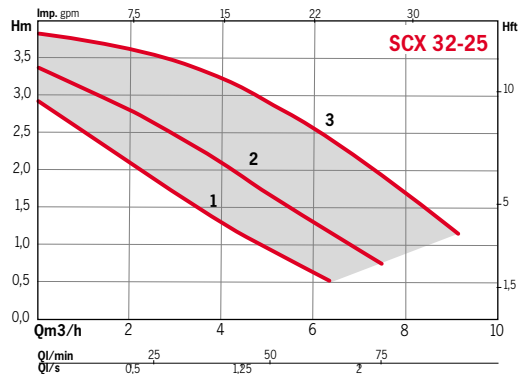
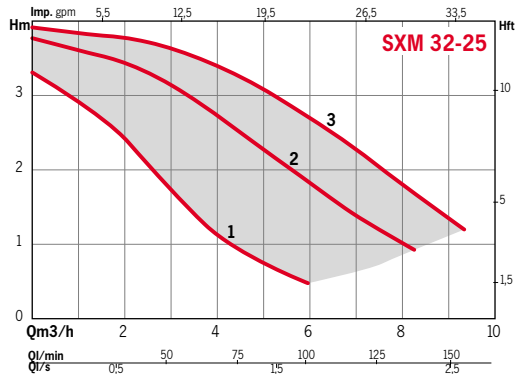
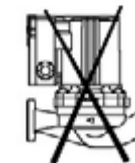
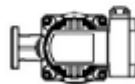
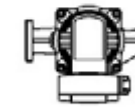
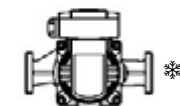
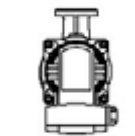
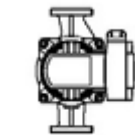
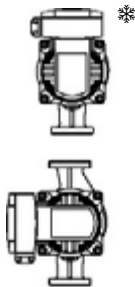
SINGLE-PHASE MODELS

THREE-PHASE MODELS

FITTING POSITIONS

HEATING

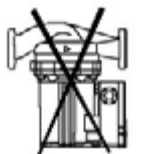
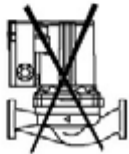
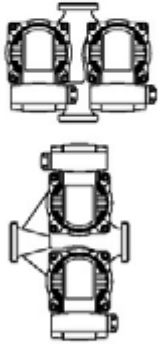
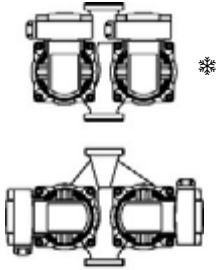
❄️ air conditioning



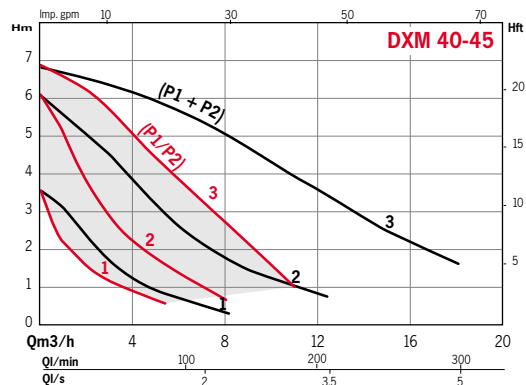
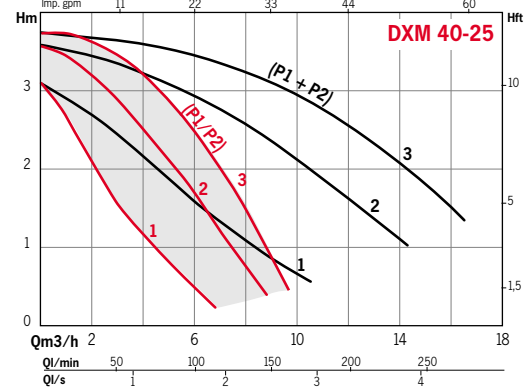
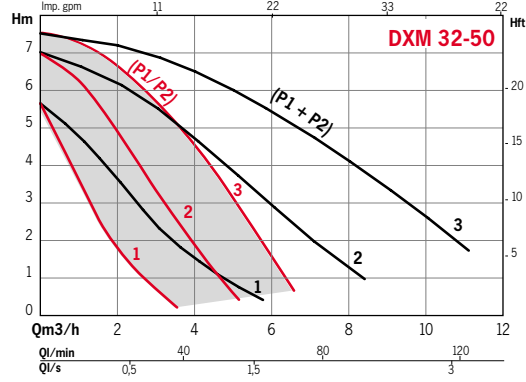
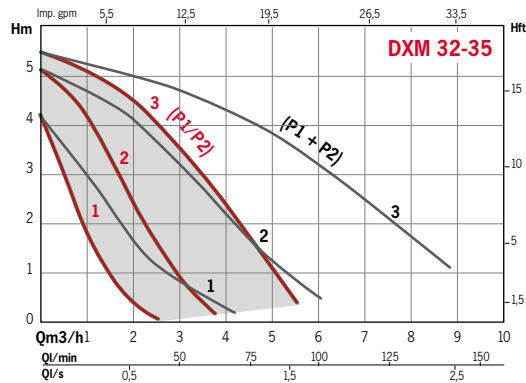
TWIN MODELS

FITTING POSITIONS HEATING

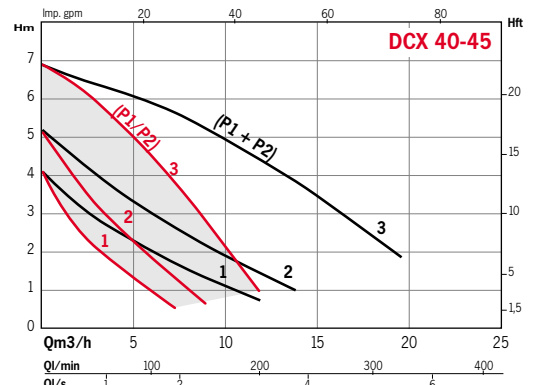
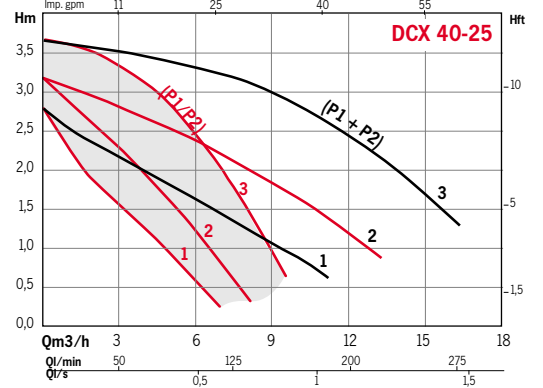
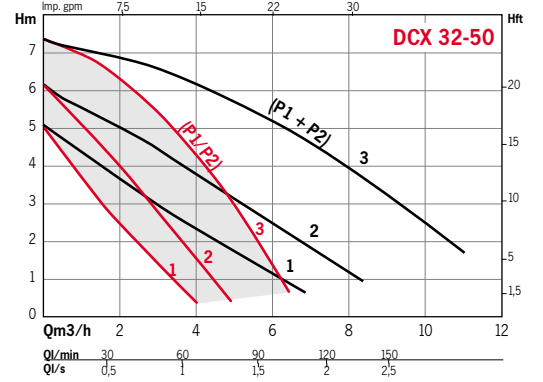
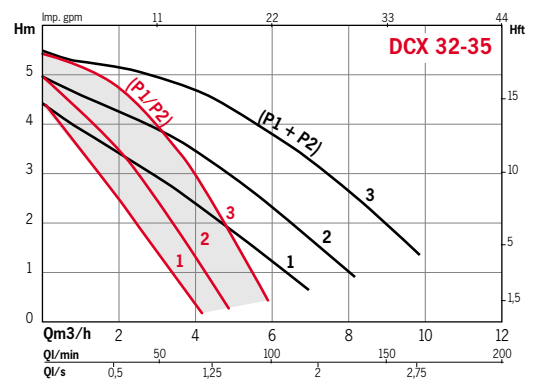
❄️ air conditioning



SINGLE-PHASE MODELS

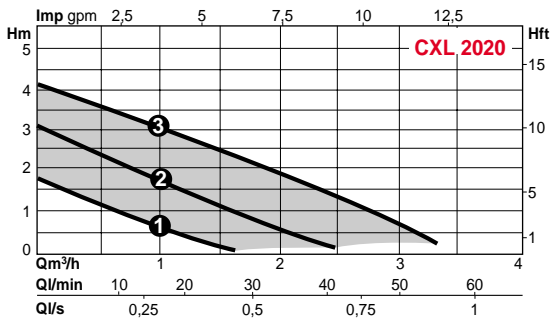


THREE-PHASE MODELS



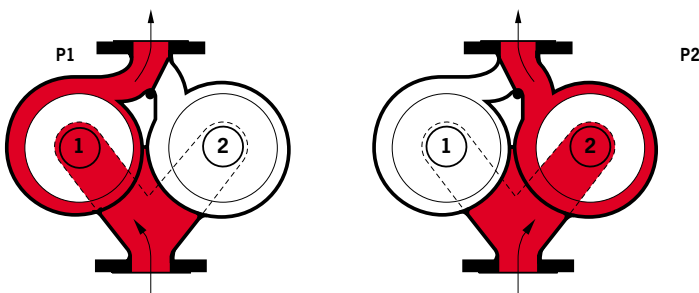
SCX-DCX SXM-DXM

HYDRAULIC PERFORMANCES CXL 2020

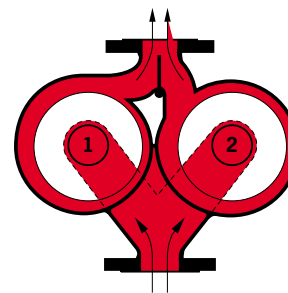


OPERATING TWIN PUMP in P1 or P2 and P1 + P2

Alternating operation : P1 or P2



Parallel operation : P1 + P2



SALMSON INTERCHANGEABILITY

New generation

SINGLE CIRCULATORS

SXM 32-35
SXM 32-25
SXM 32-50
SXM 32-45
SCX 32-35 + speed selector 3~230V
SCX 32-35
SCX 32-25 + speed selector 3~230V
SCX 32-25
SCX 32-50 + speed selector 3~230V
SCX 32-50
SCX 32-45

TWIN-HEAD CIRCULATORS

CXL 2020
DXM 32-35
DXM 40-25
DXM 32-50
DXM 40-45
DCX 32-35 + 2 speed selectors 3~230V
DCX 32-35
DCX 40-25 + 2 speed selectors 3~230V
DCX 40-25
DCX 32-50 + 2 speed selectors 3~230V
DCX 32-50
DCX 40-45

CXL generation

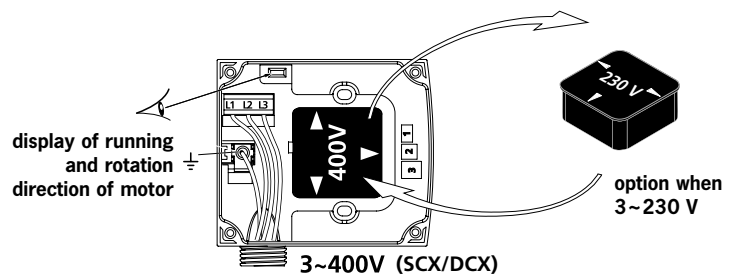
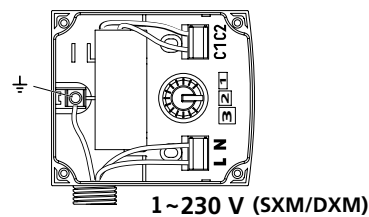
SINGLE CIRCULATORS

CXL 50-32
CXL 70-32
CXL 80-32
CXL 100-32
CXL 50-32-T2
CXL 50-32-T4
CXL 70-32-T2
CXL 70-32-T4
CXL 80-32-T2
CXL 80-32-T4
CXL 100-32-T4

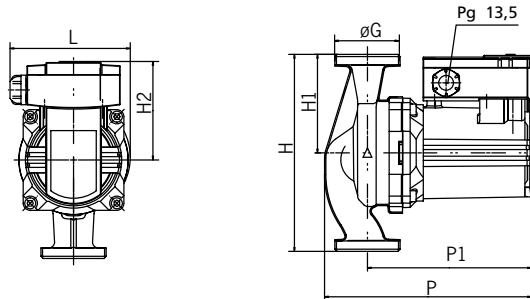
TWIN HEAD CIRCULATORS

CXL 2020
CXL 2050
CXL 2070N
CXL 2080
CXL 2100N
CXL 2050-T2
CXL 2050-T4
CXL 2070N-T2
CXL 2070N-T4
CXL 2080-T2
CXL 2080-T4
CXL 2100N-T4

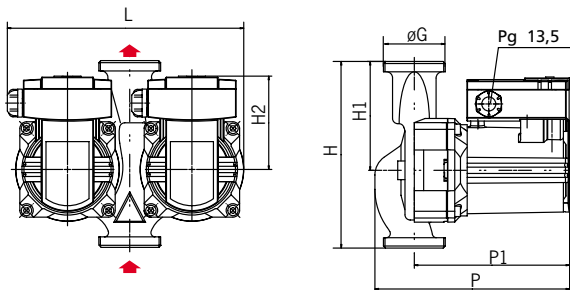
SPEED SELECTOR



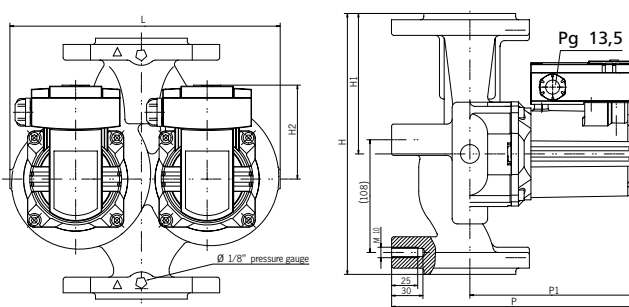
DIMENSIONS



CIRCULATORS with UNIONS

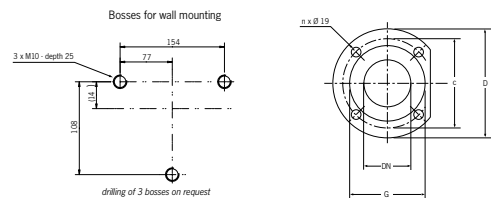


CIRCULATORS with FLANGES



FLANGES

PN 10 - EN 1092 - 2 - Suction - Discharge				
DN	D	C	G	n x ø
	mm	mm	mm	mm
40	150	110	84	4 x 19



TYPE	H	H1	H2	P	P1	L	WEIGHT	Ø	Connection accessory for threaded pipe		
	mm	mm	mm	mm	mm	mm	kg	ports	Ø1 1/4"	or	Ø1"
CXL 2020	180	110	74	142	95	207	5,5	G2"	RU 3342	RED 2634	
SCX 32-25	180	90	90	204	158	116	4,4	G2"	RU 3342	RED 2634	
SXM 32-25							4,2				
SCX 32-35	180	90	90	189	150	110	3,8	G2"	RU 3342	RED 2634	
SXM 32-35							4				
SCX 32-45	180	90	90	204	158	116	4,4	G2"	RU 3342	RED 2634	
SXM 32-45							4,2				
SCX 32-50	180	90	90	189	150	110	4	G2"	RU 3342	RED 2634	
SXM 32-50							3,8				
DCX 32-35	180	105	90	188	150	228	8,2	G2"	RU 3342	RED 2634	
DXM 32-35							7,8				
DCX 32-50	180	105	90	188	150	228	8,2	G2"	RU 3342	RED 2634	
DXM 32-50							7,8				
DCX 40-25	250	135	90	233	158	259	15	DN 40	with flanges - CB4049		
DXM 40-25							14,6				
DCX 40-45	250	135	90	233	158	259	15	DN 40			
DXM 40-45							14,6				

SCX-DCX SXM-DXM

ELECTRICAL DATA

ORDER REFERENCE	P2 W	capacitor $\mu\text{F} \times \text{V}$	position speed selector	speed r.p.m.	P1 W max.	current (A)			Order reference Motor Head
						1~ 230V	3~230V	3~400V	
SXM 32-25	70	5	1	1713	107	0,54	-	-	BMXM32-25/40-25
			2	2339	146	0,73	-	-	
			3	2661	177	0,85	-	-	
SXM 32-35	50	3,7	1	1195	72	0,35	-	-	BMXM32-35
			2	1636	106	0,51	-	-	
			3	2323	136	0,65	-	-	
SXM 32-45	100	5	1	1099	130	0,65	-	-	BMXM32-45/40-45
			2	1482	196	0,96	-	-	
			3	2164	241	1,16	-	-	
SXM 32-50	80	5	1	1352	113	0,57	-	-	BMXM32-50
			2	1954	164	0,80	-	-	
			3	2420	201	0,96	-	-	
SCX 32-25	70		1	1812	74	-	0,24	0,14	BMCX32-25/40-25
			2	2124	104	-	0,35	0,20	
			3	2605	159	-	0,64	0,37	
SCX 32-35	50		1	1893	71	-	0,24	0,14	BMCX32-35
			2	2185	98	-	0,33	0,19	
			3	2651	147	-	0,64	0,37	
SCX 32-45	100		1	1406	105	-	0,33	0,19	BMCX32-45/40-45
			2	1702	156	-	0,49	0,28	
			3	2324	255	-	0,87	0,50	
SCX 32-50	80		1	1511	83	-	0,26	0,15	BMCX32-50
			2	1829	122	-	0,38	0,22	
			3	2416	196	-	0,71	0,41	
DXM 32-35	50	3,7	1	1195	72	0,35	-	-	BMXM32-35
			2	1636	106	0,51	-	-	
			3	2323	136	0,65	-	-	
DXM 32-50	80	5	1	1352	113	0,57	-	-	BMXM32-50
			2	1954	164	0,80	-	-	
			3	2420	201	0,96	-	-	
DXM 40-25	70	5	1	1713	107	0,54	-	-	BMXM32-25/40-25
			2	2339	146	0,73	-	-	
			3	2661	177	0,85	-	-	
DXM 40-45	100	5	1	1099	130	0,65	-	-	BMXM32-45/40-45
			2	1482	196	0,96	-	-	
			3	2164	241	1,16	-	-	
DCX 32-35	50		1	1893	71	-	0,24	0,14	BMCX32-35
			2	2185	98	-	0,33	0,19	
			3	2651	147	-	0,64	0,37	
DCX 32-50	80		1	1511	83	-	0,26	0,15	BMCX32-50
			2	1829	122	-	0,38	0,22	
			3	2416	196	-	0,71	0,41	
DCX 40-25	70		1	1812	74	-	0,24	0,14	BMCX32-25/40-25
			2	2124	104	-	0,35	0,20	
			3	2605	159	-	0,64	0,37	
DCX 40-45	100		1	1406	105	-	0,33	0,19	BMCX32-45/40-45
			2	1702	156	-	0,49	0,28	
			3	2324	255	-	0,87	0,50	
CXL 2020	20	2	1	1050	31	0,14	-	-	BMCXL20-20
			2	1520	47	0,21	-	-	
			3	1980	67	0,29	-	-	

FEATURES

a) Electrical

- Single-phase 230 V - 50 Hz with built-in capacitor.
- Three-phase 400 V or 230* V (50 Hz)
- * For 3~230V, order "speed selector":
réf. 2040641 - sold separately.
- 1 Selector for SCX
- 2 Selectors for DCX

b) Installation

- Motor shaft always horizontal.
- Connection to the installation :
 - Per unions and per weld-on or screw-on PN 10 counter-flange for DXM40-25, DXM 40-45, DCX40-25 and DCX 40-45

c) Packaging

- Union models : supplied with gaskets without unions.
- Flanges models : supplied with gaskets and bolts, without counter-flange.

d) Maintenance

- Replacement of motor and hydraulic parts

NOTE (REPLACEMENT)

The BMXM/BMCX references are complete assemblies with the motor head and impeller installed, not sold separately

RECOMMENDED...

... ACCESSORIES

- Unions - **RU 3342** ref.: 58672 or **RED 2634** ref.: 58673, weld-on or screw-on counter-flanges.
- MGP control and protection devices (twin circulators) ref.: 4042680.

BLANK COVER*

With seals for twin models.

Type	Order reference	Item n°
CXL 2020	COUV.11	4045508
DCX-DXM 32-35/32-50	COUV.22	2044105
DCX-DXM 40-25/40-45		

* Blanks the opening left the removal of the hydraulic assembly and motor.

* Allows standby pump operation during the troubleshooting process.