Single
Packs

Single Pack SC18/18CLX.2 220-240V 50Hz

Single pack code number: **195B3363**

Position	Title	Code	Amount
1	Compressor SC18/18CLX.2	104L4035	1
2	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Technical Data Twin-Compressor

SECOP

Model

Designation	**SC18/18CLX.2**	**220-240V/50Hz 1~**	Sales code:	**104L4035**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R404A, R507**
Oil viscosity	32cST	Displacement	35,36cm³ / 2,16cu.in
Oil quantity	1233cm³ / 41,7fl.oz	Compressors on pallet	18
Refr. charge - tech. limit	2200g / 77,6oz		
Free gas volume comp.	2920cm³ / 98,7fl.oz		
Weight	29,1kg / 64,2lbs		
Motor protection	1# internal		
Winding resistance main	3,3Ω (at 25°C)		
Winding resistance aux	16,5Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		

General - Configurations with SC18/18CLX.2

	Conf. 1
Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	CCC, VDE, EAC
Starting torque	HST
Note	- / -

Applications with SC18/18CLX.2

	Conf. 1
Refrigerant	R404A
Application	LBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with SC18/18CLX.2

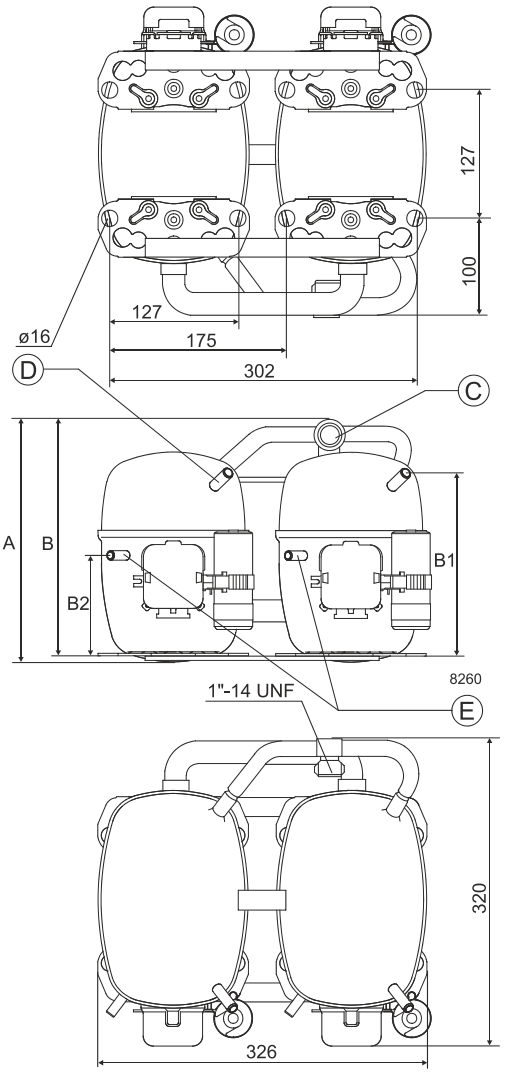
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80µF
LRA (locked rotor amps / 4s)	2x 23,5A
RLA (rated load amps / 1s)	2x 4,5A
Cut in current	2x 23,5A

Model

Designation **SC18/18CLX.2** **220-240V/50Hz 1~** Sales code: **104L4035**

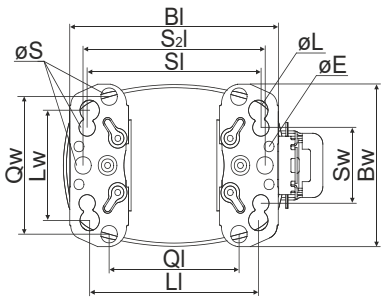
Compressor dimensions

Housing	A Height	259mm / 10,2in
	B Height	254mm / 10in
	B1	193mm / 7,6in
	B2	110mm / 4,33in



Connectors		**Suction** C	**Discharge** E	**Process** D
Diameter	[mm]	øi 15,21-15,37	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,6-0,61	øi 0,24-0,25	øi 0,24-0,25
Material		steel	copper	copper
Horizontal angle	±2°	0°	37°	37°
Vertical angle	±2°	0°	0°	0°
Position l/h/w	[mm]	0/0/0	0/0/0	0/0/0
	[in]	0/0/0	0/0/0	0/0/0
Straight tube l.	[mm]	10	12	12
	[in]	0,4	0,5	0,5

Compressor fixation



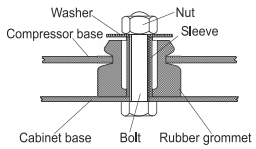
Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38

Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

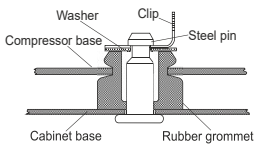
Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
Ql	127	5
Qw	127	5

Mounting accessories	one comp.	multi pack
Bolt joint | M6 | ø16mm	118-1917	118-1918
Bolt joint | ø1/4" | ø16mm	118-1946	
Bolt joint | ø1/4" | ø19mm	118-1949	
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Bolt joint



Snap-on



Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

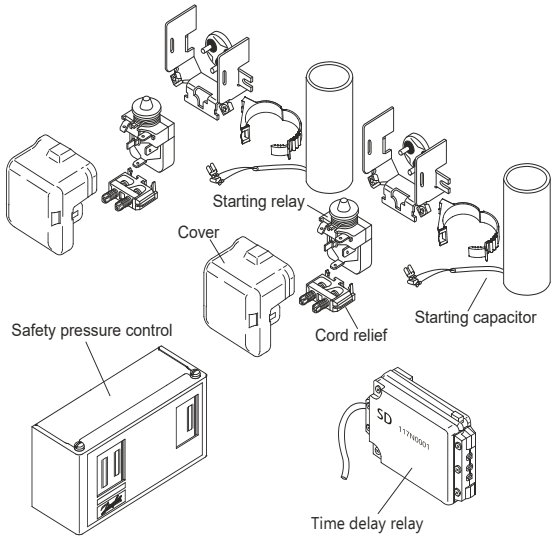
Twin should be used with a time-delay relay

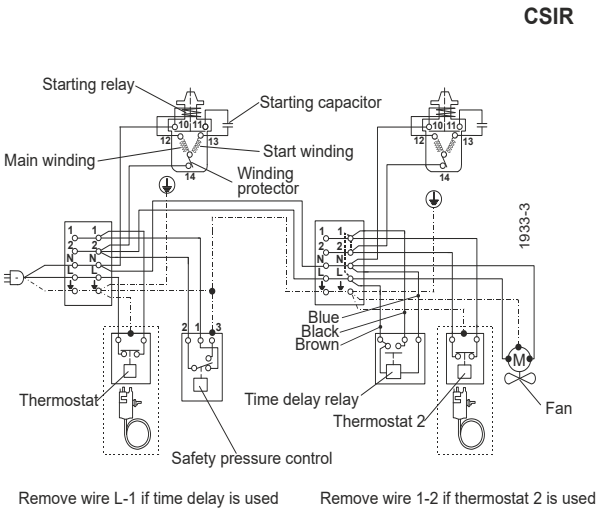
Model

Designation	**SC18/18CLX.2**	**220-240V/50Hz**	**Conf. 1**	Sales code:	**104L4035**

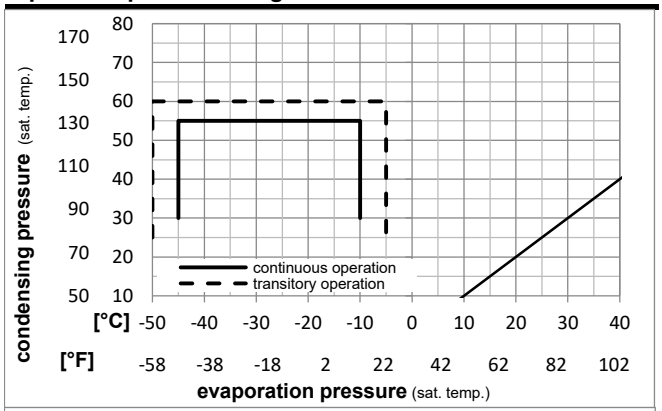
Configuration		**Ambient/ machine room temperatures minimum /maximum**	
Motorconfiguration	CSIR	Ambient temperature range:	10 - 38°C / 50 - 101°F
Power supply (nominal)	220-240V/50Hz 1~	Machine room temperature range:	10 - 43°C / 50 - 110°F
Refrigerant	R404A	**Compressor cooling:**	fan 3m/s
Application	LBP		
Voltage range	198-254V	**Operation Limits**	
Starting torque	HST		
Approvals	CCC, VDE, EAC		

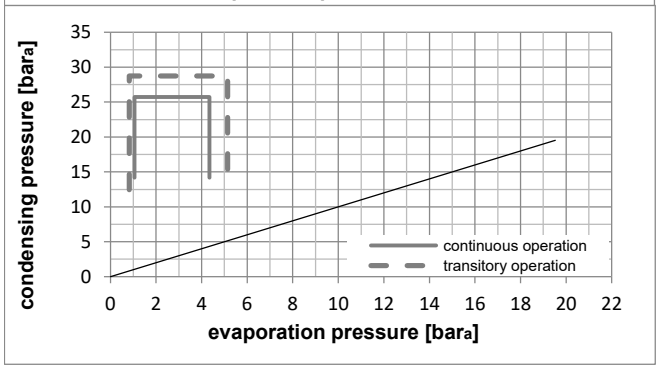
Electrical accessories / wiring diagram





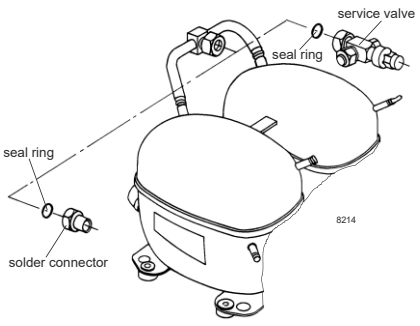
Operation pressure range





Components

a2	relay	117U6013
c	start capacitor (125µF)	117U5012
d	cord relief	103N1004
b	plastic cover	103N2009
.	Check valve (to be used with time-delay relay)	020-1014
.	Service valve 16mm	118-7351
.	Solder connector (alternative) 16 mm	118-7405
.	Seal ring for service valve and solder conn.	118-3638



Model

Designation **SC18/18CLX.2** **220-240V/50Hz** **Conf. 1** Sales code: **104L4035**

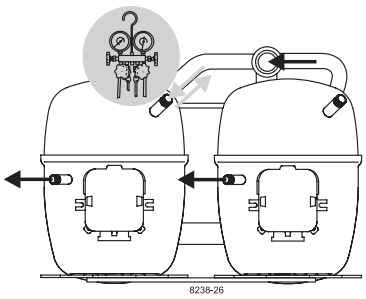
Optimization + standard conditions R404A, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE, EAC

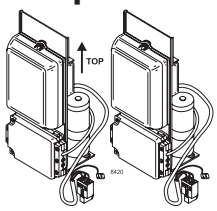
	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	1756,7	6000	1511,8	1,20	4,08	1,03	1469,4	8,91	40,93	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	1182,3	4038	1017,5	0,84	2,86	0,72	1409,4	8,68	36,95	**cecomaf LBP**
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	953,9	3258	820,9	0,93	3,18	0,80	1023,5	7,37	25,92	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	1327,5	4534	1142,4	0,93	3,16	0,80	1432,6	8,84	47,00	**ARI540 LBP**
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	2031,7	6939	1748,5	1,47	5,02	1,27	1381,9	8,68	47,34	**AHAM LBP**
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	871,0	2975	749,6	0,85	2,89	0,73	1029,0	7,37	23,29	**opt**
[°F]	-31	113	90	113										

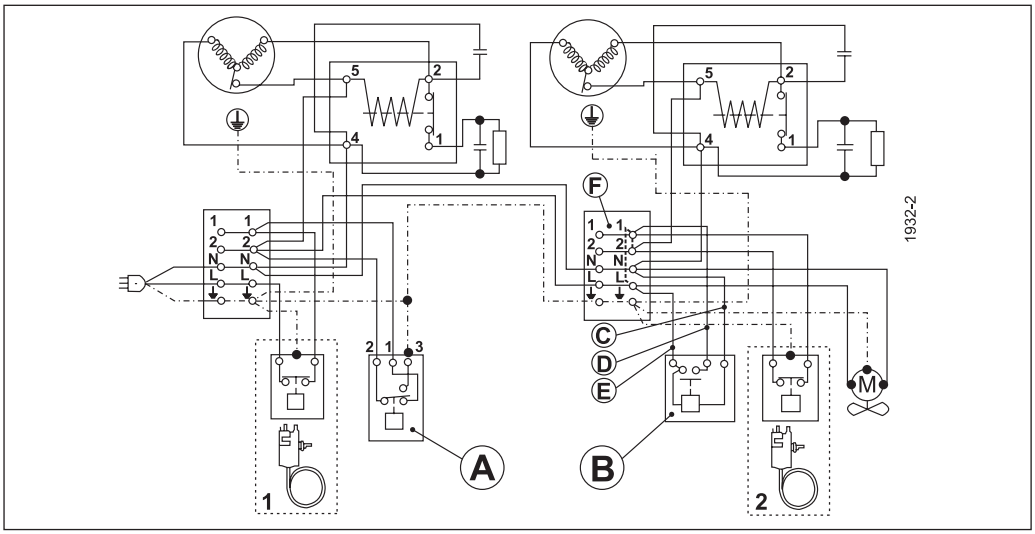
Performance tables R404A, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE, EAC

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-45	-49	385,2	1315	331,5	0,55	1,87	0,47	704,4	6,25	10,23
cond. pressure	-35	-31	871,0	2975	749,6	0,85	2,89	0,73	1029,0	7,37	23,29
pc= 45/113	-30	-22	1183,1	4040	1018,1	0,99	3,40	0,86	1189,3	7,95	31,76
return gas temp.	-25	-13	1550,0	5294	1334,0	1,15	3,91	0,99	1352,5	8,56	41,81
RGT= 32/90	-20	-4	1978,5	6757	1702,8	1,30	4,44	1,12	1521,5	9,19	53,68
liquid temp	-15	5	2475,3	8453	2130,2	1,46	4,97	1,25	1699,2	9,84	67,62
Tliq= 45/113	-10	14	3046,8	10405	2622,1	1,61	5,51	1,39	1888,9	10,51	83,90
[°C / °F]	-45	-49	183,6	627	158,0	0,29	0,98	0,25	637,6	6,01	5,64
cond. pressure	-35	-31	604,6	2065	520,3	0,59	2,00	0,51	1029,9	7,30	18,70
pc= 55/131	-30	-22	870,5	2973	749,2	0,71	2,44	0,61	1219,8	7,98	27,05
return gas temp	-25	-13	1182,3	4038	1017,5	0,84	2,86	0,72	1409,4	8,68	36,95
RGT= 32/90	-20	-4	1546,5	5282	1330,9	0,97	3,30	0,83	1602,0	9,40	48,66
liquid temp	-15	5	1969,8	6727	1695,2	1,09	3,74	0,94	1800,4	10,14	62,47
Tliq= 55/131	-10	14	2458,8	8397	2116,1	1,22	4,18	1,05	2007,6	10,90	78,71

SC Twin Compressors

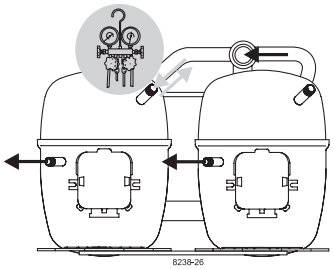


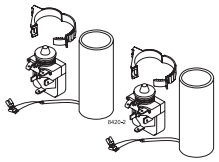


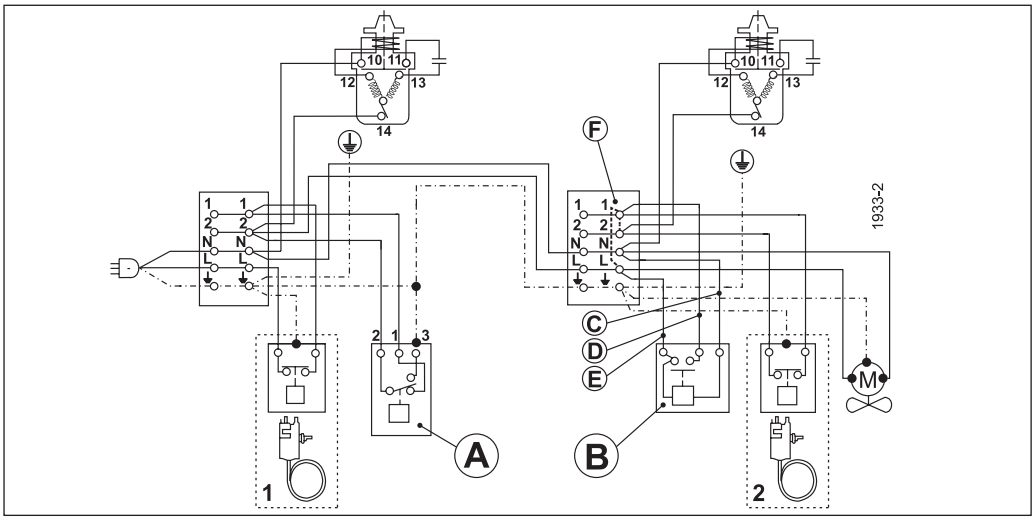


	A	B	C	D	E	F	
ENGLISH	Safety pressure control	Time delay relay	Blue	Black	Brown	Remove wire L-1 if time delay is used	Remove wire 1-2 if thermostat 2 is used
中文	安全压力控制	延时继电器	蓝	黑	棕	若延时继电器使用，线L-1不使用	若温控器2使用，线1-2不使用
Русский	Предохранительное реле давления	Реле задержки времени	Синий	Чёрный	Коричневый	Отсоедините провод L-1, если используется реле задержки времени	Отсоедините провод 1-2, если используется термостат 2
DEUTSCH	Sicherheitsdruckschalter	Zeitrelais (verzögernd)	Blau	Schwarz	Braun	Bei Benutzung der Anlaßverzögerung Brücke L-1 entfernen	Bei Benutzung von Thermostat 2 Brücke 1-2 entfernen
FRANÇAIS	Pressostat	Relais de temporisation	Bleu	Noir	Marron	Supprimer la connection L-1 si le relais de temporisation est utilisé	Supprimer la connection 1-2 si thermostat 2 est utilisé
ESPAÑOL	Presostato de seguridad	Relé de retardo	Azul	Negro	Marrón	Quitar cable L-1, si se utiliza un relé de retardo	Quitar cable 1-2, si se utiliza el termostato 2
ITALIANO	Pressostato	Relè di ritardo avviam.	Blu	Nero	Marrone	Eliminare il cavo L-1 se è utilizzato il ritardatore	Eliminare il cavo 1-2 se è utilizzato il termostato 2
NEDERLANDS	Pressostaat	Tijdvertragings relais	Blauw	Zwart	Bruin	Verwijder draad L-1 indien tijdvertraging wordt toegepast	Verwijder draad 1-2 indien thermostaat wordt toegepast
DANSK	Sikkerhedspressostat	Tidsforsinkelsesrelæ	Blå	Sort	Brun	Ved tidsforsinkelse fjernes ledning L-1	Ved termostat 2 fjernes ledning 1-2
SVENSKA	Säkerhetspressostat	Tidsfördröjningsrelä	Blå	Svart	Brun	Vid anslutning av tidfördröjningsrelä avlägsnas bygling L-1	Vid anslutning av termostat 2 avlägsnas bygling 1-2

SC Twin Compressors







	A	B	C	D	E	F	
ENGLISH	Safety pressure control	Time delay relay	Blue	Black	Brown	Remove wire L-1 if time delay is used	Remove wire 1-2 if thermostat 2 is used
中文	安全压力控制	延时继电器	蓝	黑	棕	若延时继电器使用，线L-1不使用	若温控器2使用，线1-2不使用
Русский	Предохранительное реле давления	Реле задержки времени	Синий	Чёрный	Коричневый	Отсоедините провод L-1, если используется реле задержки времени	Отсоедините провод 1-2, если используется термостат 2
DEUTSCH	Sicherheitsdruckschalter	Zeitrelais (verzögernd)	Blau	Schwarz	Braun	Bei Benutzung der Anlaßverzögerung Brücke L-1 entfernen	Bei Benutzung von Thermostat 2 Brücke 1-2 entfernen
FRANÇAIS	Pressostat	Relais de temporisation	Bleu	Noir	Marron	Supprimer la connection L-1 si le relais de temporisation est utilisé	Supprimer la connection 1-2 si thermostat 2 est utilisé
ESPAÑOL	Presostato de seguridad	Relé de retardo	Azul	Negro	Marrón	Quitar cable L-1, si se utiliza un relé de retardo	Quitar cable 1-2, si se utiliza el termostato 2
ITALIANO	Pressostato	Relè di ritardo avviam.	Blu	Nero	Marrone	Eliminare il cavo L-1 se è utilizzato il ritardatore	Eliminare il cavo 1-2 se è utilizzato il termostato 2
NEDERLANDS	Pressostaat	Tijdvertragings relais	Blauw	Zwart	Bruin	Verwijder draad L-1 indien tijdvertraging wordt toegepast	Verwijder draad 1-2 indien thermostaat wordt toegepast
DANSK	Sikkerhedspressostat	Tidsforsinkelsesrelæ	Blå	Sort	Brun	Ved tidsforsinkelse fjernes ledning L-1	Ved termostat 2 fjernes ledning 1-2
SVENSKA	Säkerhetspressostat	Tidsfördröjningsrelä	Blå	Svart	Brun	Vid anslutning av tidfördröjningsrelä avlägsnas bygling L-1	Vid anslutning av termostat 2 avlägsnas bygling 1-2