



SCREW COMPRESSOR LIQUID CHILLERS
SERIES RTHD MANUFACTURED IN CHARMES (FRANCE)

MARK PACKAGE		ITEM	QUANTITY	PRO. CODE 153	S.O. NUMBER
		TAGGING			SERIAL NUMBER

BASIC MODEL IDENT

R T H D E

A O C

A

X

1 5 10 15 20 25 30 35

36 40 41 42 45 50 54

* digit 40, 41 et 42= motor design RLA (4)

ITEM	DIGIT	DESCRIPTION	PRICING
UNIT SIZE	6 7	☐ B1 ☐ B2 ☐ C1 ☐ C2 ☐ D1 ☐ D2 ☐ D3 ☐ E3	Digit
MAIN POWER VOLTAGE	8	☐ R: 380V/50Hz/3Ph ±5% ☐ T: 400V/50Hz/3Ph ±10% ☐ U: 415V/50Hz/3Ph ±5%	6-7 8
SPECIAL REQUIREMENT(S)	9	☐ X: No ☐ S: Yes	13
PRESSURE VESSEL APPROVAL	13	☐ P: PED (Pressure Equipment Directive) ☐ S: Special	17
EVAPORATOR SIZE	14 15	☐ B1 ☐ C1 ☐ D1 ☐ D2 ☐ D3 ☐ D4 ☐ D5 ☐ D6 ☐ E1 ☐ F1 ☐ F2 ☐ G1 ☐ G2 ☐ G3	19 20
EVAPORATOR WATER PASSES	17	☐ 2: 2 Passes ☐ 3: 3 Passes ☐ 4: 4 Passes ☐ 6: 6 Passes	23
EVAP. WATER CONNECTION	18	☐ L: Left hand ☐ R: Right hand	24
EVAP. CONNECTION TYPE	19	☐ A: Standard grooved pipe ☐ B: Grooved pipe & coupling ☐ S: Special	26
EVAP. WATER SIDE PRESSURE	20	☐ L: EVP 10bar ☐ H: EVP 21bar	27
CONDENSER SIZE	21 22	☐ B1 ☐ D1 ☐ E1 ☐ E2 ☐ E3 ☐ E4 ☐ E5 ☐ F1 ☐ F2 ☐ F3 ☐ G1 ☐ G2 ☐ G3	28 30
CONDENSER TUBE TYPE	23	☐ A: Enhanced fin - copper ☐ B: Smooth bore - copper ☐ C: Smooth bore - 90/10 Cu/Ni	39 43
CONDENSER WATER PASSES	24	☐ 2: 2 Passes	
CONDENSER WATER CONNECTION	25	☐ L: Left hand ☐ R: Right hand	OPTIONS
CONDENSER CONNECTION TYPE	26	☐ A: Standard grooved pipe ☐ B: Grooved pipe & coupling ☐ S: Special	29
CONDENSER WATER SIDE PRESSURE	27	☐ L: CDS 10bar ☐ H: CDS 21bar	31 34
CONDENSER LEAVING WATER TEMP.	28	☐ A: Standard T≤45°C ☐ B: Hi 45°C<T≤50°C	44
REFRIGERANT SPECIALITIES	29	☐ X: Without ☐ V: Isolation valves ☐ G: Gauges ☐ B: V+G	45 47 48
OIL COOLER	30	☐ X: Without ☐ C: With	49
THERMAL INSULATION	31	☐ X: Without ☐ Q: Colds parts	50
LANGUAGE	33	See over (1)	51
SAFETY DEVICES	34	☐ X: Standard ☐ B: Dual safety valves ☐ A: B + Ruptur disc	52
REFRIGERANT CHARGE	35	☐ A: Full factory charge (R134a) ☐ B: Nitrogen (No oil) ☐ C: Holding charge (R134a)	53 54
SHIPPING PACKAGE	36	See over (2)	
FLOW SWITCH	37	☐ X: Without ☐ A: Evap. ☐ B: Evap + Cond.	
FACTORY TEST	38	See over (3)	ACCESSORIES
STARTER TYPE	39	☐ Y: star-delta closed transition starter	9
POWER LINE CONNECTION TYPE	43	See over (5)	35
ELECTRICAL PROTECTION	44 45	☐ B: Standard ☐ D: IP20 electrical protection See over (6)	37
UNIT OPERATOR INTERFACE	46	See over (7)	
REMOTE INTERFACE	47	☐ X: Without ☐ 4: Tracer comm 4 ☐ 5: Tracer comm 5 LCI-C (Lon Talk)	TOTAL LIST
EXTERNAL CHILLED WATER & CURRENT LIMIT SETPOINT	48	☐ X: Without ☐ 4: 4-20mA input ☐ 2: 2-10Vdc input	
EXTERNAL BASE LOADING	49	☐ X: Without ☐ 4: 4-20mA input ☐ 2: 2-10Vdc input	9
ICE MAKING	50	☐ X: Without ☐ A: Icemaking with relay ☐ B: Icemaking without relay	36
PROGRAMMABLE RELAYS	51	☐ X: Without ☐ R: Programmable relays	38
CHILLED WATER RESET	52	☐ X: Standard ☐ T: Chilled water reset - outdoor air temperature	
REG. VALVE & RLA	53	See over (8)	Design
REFRIGERANT MONITOR INPUT	54	See over (9)	Other
COOLING CAPACITY: kW		COMP. POWER INPUT: kW (1)	
EVAPORATOR: WATER FLOW: I/s EWT/LWT: / °C	FF: m2°K/kW WPD: kPa ET. GLYCOL: % PR. GLYCOL: %	CONDENSER: WATER FLOW: I/s EWT/LWT: / °C	FF: m2°K/kW WPD: kPa ET. GLYCOL: %
SUBMITTAL DRAWINGS N°		WIRING DIAGRAM N°	SHEET OF
NUMBER OF PRINTS:	DELIVERY:	PRINTS FOR APPROVAL: YES NO	C 5712-1330 E Rev B 01-10-2003

(1) POWER CONSUMPTION AT ORDER CONDITIONS

(1) Digit 33 : CONTROL, LABEL AND LITERATURE LANGUAGE

DIGIT	LANGUAGE
C	Spanish
D	German
E	English
F	French
H	Dutch
I	Italian
M	Swedish
P	Polish
T	Czech
U	Greek
V	Portuguese
6	Hungarian

(3) Digit 38 : FACTORY TEST

DIGIT	TEST
A	Functional test
B	Customer inspection
C	Witness test
D	Performance test with report
S	Special

(6) Digit 45 : ELECTRICAL PROTECTION

DIGIT	INTERFACE
X	Standard
U	Under/over voltage protection
G	Ground fault protection relay
B	U + G

(8) Digit 53 : REG. VALVE & RLA

DIGIT	REG. VALVE & RLA
X	Without
D	Chiller Differential Pressure & %RLA out
P	Condenser pressure (%HPC) & %RLA out
V	Condenser reg. valve out & %RLA out

(2) Digit 36 : SHIPPING PACKAGE

DIGIT	SHIPPING PACKAGE
A	Domestic
C	Domestic + skid
E	SEI Classe 3
F	SEI Classe 4a
G	SEI Classe 4c

(4) Digit 40-41-42 : MOTOR RLA

DIGIT	UNIT SIZE
233	B1 - B2
349	C1 - C2
455	D1 - D2 - D3
488	E3

(5) Digit 43 : POWER LINE CONNECTION TYPE

DIGIT	CONNECTION TYPE
A	Terminal block
B	Disconnect switch (no fuses)
D	Circuit breaker
K	Disconnect switch and fuses

(7) Digit 46 : UNIT OPERATOR INTERFACE

DIGIT	INTERFACE
A	Dyna-view / English
B	Dyna-view / French
C	Dyna-view / Italian
D	Dyna-view / Spanish
E	Dyna-view / German
F	Dyna-view / Dutch
K	Dyna-view / Portuguese

(9) Digit 54 : REFRIGERANT MONITOR INPUT

DIGIT	INTERFACE
X	Without
A	100ppm / 4-20mA
B	1000ppm / 4-20mA
C	100ppm / 2-10Vdc
D	1000ppm / 2-10Vdc

EVAPORATOR AND CONDENSER SIZE

UNIT SIZE Digit 6&7	EVAPORATOR SIZE Digit 14&15	EVAPORATOR PASSES Digit 17			CONDENSER SIZE Digit 21&22	CONDENSER PASSES Digit 24
		Opt	Std	Opt		
B1	B1	2	3	4	B1	2
B1	C1	2	3	4	D1	2
B2	B1	2	3	4	B1	2
B2	C1	2	3	4	D1	2
C1	D6	2	3	4	E5	2
C1	D5	2	3	4	E4	2
C1	D3	2	3	4	E3	2
C2	D6	2	3	4	E5	2
C2	D5	2	3	4	E4	2
C2	E1	2	3	4	F1	2
D1	D4	2	3	4	E4	2
D1	D3	2	3	4	E3	2
D1	G1	3	4	6	G1	2
D2	D1	2	3	4	E1	2
D2	F1	2	3	4	F2	2
D2	G2	3	4	6	G1	2
D3	D1	2	3	4	E1	2
D3	F1	2	3	4	F2	2
D3	G2	3	4	6	G2	2
E3	D2	2	3	4	E2	2
E3	F2	2	3	4	F3	2
E3	G3	3	4	6	G3	2