

Technical Data

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ICBID-30RP TECHNICAL DATA

IMPORTANT NOTE: Always check the serial tag for exact refrigerant charge.

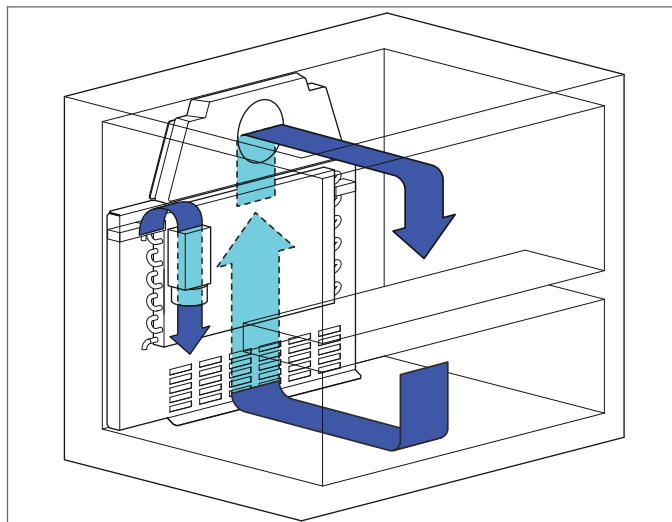
IMPORTANT NOTE: Always check the parts price list for possible compressor substitutions.

TIP: The freezer evaporator thermistor is used for the adaptive defrost on this model. The defrost terminator is used for temperature protection.

ICBID-30RP	
Data Point	Value
Refrigerator Charge	45.4 grams
Normal operating pressure low side (at max speed)	10 inHg to 5 psig
Normal operating pressure high side (at max speed)	40 psig to 60 psig
Compressor Type	Variable Speed
Original compressor amps (at max speed)	2.1
Original compressor BTU/H	460
Defrost method	Fan Assisted Off Cycle Defrost
Thermistor resistance at 0°C	30,000 - 33,000 ohms
Condenser Fan	12 VDC
	.51 Amps
	6.1 Watts
Evaporator Fan	23.5 Ohms
	12 VDC
	.52 Amps
Air Purification Fan	6.2 Watts
	23.1 Ohms
	12 VDC
	.04 Amps
	.48 Watts

ICBID-30RP - AIR FLOW

For proper airflow, evaporator fan blades must be pushed onto the fan motor shafts fully, so that the motor shafts touch the fan blade stop point.



INTEGRATED REFRIGERATION ERROR CODES

Error codes, or faults are logged when electrical errors are detected. Integrated error codes provide a 3-part identifier to indicate the device/system where the error occurred, the zone where the device/system error occurred and the failure associated with the error. The way an error is presented (door open or closed, alarm / no alarm, visible to consumer/only visible in diagnostic mode) indicates the error severity.

TIP: For example, error indicator 10 3 01 is a thermistor fault in Zone 3 where the device is shorted or closed. This error is Low Severity so it only shows on a splash screen to the user when the door is open without a chime; the error is logged in the service and user menus.

Device or System Fault Code	Zone	Failure Indicator
10	3	01

ERROR SEVERITY	
Severity	Definition
1 - Lowest	Error visible only in the service menu, no indication to user, no chime
2 - Low	Error visible on splash screen to user with door open and logged in service and user menu, no chime
3 - Medium	Error steady on screen to user with door open and logged in service and user menu, no chime
4 - Medium high	Error steady on screen to user with door open and logged in service and user menu, chime with door open
5 - Critical	Error steady on screen to user with door open and logged in service and user menu, chime with door closed

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Integrated Refrigeration Error Codes (continued)

DEVICE OR SYSTEM INDICATOR	
Fault Code	Device or System
10	Thermistor
15	Relay
20	Defrost heater
30	Ice / Water / Accessory
35	Fan
40	Runtime
44	Glass heater
45	Lighting
50	Flow meter
60	Load / component
90	Control
95	Diagnostic
98	Power

ZONE INDICATOR	
Code	Zone
0	Misc
1	Zone 1
2	Zone 2
3	Zone 3
4	Defrost system
5	Control system
6	Compressors
7	Ambient
8	Ice maker
9	Dispenser
A	Air filter
L	Lighting
U	Water system
H	High voltage system
C	Condenser
b	Baffle

FAILURE INDICATOR	
Failure	Description
00	Open
01	Short / closed
02	Unstable
05	Miswire normal temps
06	Miswire overheat
07	Bad ohms
09	Too warm / large temp differential
10	Second device open
11	Second device short / closed
12	Second device unstable
20	Third device open
21	Third device short / closed
22	Third device unstable
25	Diagnostics failure
30	Valve enabled too long
33	Speed setting too low
34	Speed setting too high
35	Fan speed error
36	Fan current too low
37	Fan current too high
38	FET power output fault
39	DC output fault
40	Excessive runtime
42	Primary heater fault
43	Secondary heater fault
44	Door heater output fault
45	Burned out light
46	No position / state detected
50	Open heater
55	Triac open
56	Triac short
60	No load / load open
65	Stuck at dispenser water valve out
66	Stuck at ice water valve out
70	Bad flash write
71	Flash initialized
72	Flash memory bad
73	Flash memory not present
74	Invalid E2 checksum
75	Invalid model E2 checksum
80	No communication
81	Communications timeout
82	Partial communications
83	Bad micro communication



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INTEGRATED REFRIGERATION ERROR CODES (continued)

FAILURE INDICATOR	
Failure	Description
84	Micro initialization
85	Display failure
86	Flow too slow
87	No flow
90	Framing errors
92	Excessive collisions
93	Data overrun
95	FMEA error
96	Calibration or low signal error
97	Quantum SPI
98	Brownout
99	Other