

Document Issued By: <b>Patrick Graham</b>	Document Number: <b>QF-8.2-05</b>
	Document Revision Level: <b>Rev-3.3(05/25/07)</b>

# **Dimplex**

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## Thermal Solutions

### **DATAPACK**

#### Quality Assurance Program

Serial Number: 39918

Model: WO2-2-10000-2P-NF-L-M-407C



SerialNumber: 39918

Inventory Number: 0717020002995 001 Tested By: Darren Bishop

Voltage: 460

PH: 3

HZ: 60

### Specifications

#### Specifications

Test	Range	Actual
Refrig Type	R407C	R407C
Fluid Type	Water/Glycol (60/4 50% GLYCOL)	
Fluid Operating Temp.	46F	46

Test	Range	Actual
Refrig Lbs	2 x 30	2 X 30
Ambient Temp.	-20-115F	104
Delta Temp.	----	19.244

### Fan

#### Fan 1 - Variable 1A & 1C

Test	Range	Actual
RLA	----	1.2
L2	----	1.0/1.0

Test	Range	Actual
L1	----	1.0/1.0
Press. Start/Wide Open	200/280	210/280

#### Fan 2 - Variable 2A & 2C

Test	Range	Actual
RLA	---	1.2
L2	---	1.0/1.0

Test	Range	Actual
L1	---	1.0/1.0
Press. Start/Wide Open	200/280	210/280

#### Fan 3 - Cycle 1B & 1D

Test	Range	Actual
RLA		1.2
L2		0.9/0.9
Press. In/Out	320/190	320/190

Test	Range	Actual
L1		0.9/0.9
L3		

#### Fan 4 - Cycle 2B & 2D

Test	Range	Actual
RLA		1.2
L2		0.9/0.9
Press. In/Out	320/190	320/190

Test	Range	Actual
L1		0.9/0.9
L3		

**Compressor**

**Compressor 1 A & B**

Test	Range	Actual
High Pressure In/Out	/450	450
Sub Cooling	5-20	14
BTU/HR	138,187	154386
Head Pressure	175-430	373
RLA	----	20
L2	----	17.7/17.7

Test	Range	Actual
Low Pressure In/Out	20/10	20/10
Superheat (F)	12-20	13
Suction Pressure	50-80	52
Temp Set ON/OFF	Carel PID	CAREL PID
L1	----	17.8/18.0
L3	----	17.3/17.3

**Compressor 2 A & B**

Test	Range	Actual
High Pressure In/Out	/450	450
Sub Cooling	5-20	14
BTU/HR	138,187	154386
Head Pressure	175-430	366
RLA	----	20
L2	----	17.6/17.5

Test	Range	Actual
Low Pressure In/Out	20/10	20/10
Superheat (F)	12-20	17
Suction Pressure	50-80	53
Temp Set ON/OFF	Carel PID	CAREL PID
L1	----	17.5/17.6
L3	----	17.0/17.1

**Pump**

**Pump 1 #1**

Test	Range	Actual
RLA	----	6.3
L1	----	6.0
L3	----	6.0
Total Pump Flow	50	
Req'd Actual Head Press	65	65

Test	Range	Actual
Service Factor	----	1.25
L2	----	5.7
O.L. Size	----	7.8
Req'd Process Flow GPM	36	35

**Pump 2 #2**

Test	Range	Actual
RLA	----	6.3
L1	----	6.0
L3	----	5.9
Total Pump Flow	50	
Req'd Actual Head Press	65	65

Test	Range	Actual
Service Factor	----	1.25
L2	----	5.7
O.L. Size	----	7.8
Req'd Process Flow GPM	36	35

SerialNumber: 39918

**Pump**

**Flow switch**

**Flow switch 1**

Test	Range	Actual
Make (+/- 20%)		

Test	Range	Actual
Break (+/- 20%)	20 gpm	20

**Program**

**Program**

Test	Range	Actual
Program Number Installed	-----	GE REV C3

Test	Range	Actual
Program Revision Installed	-----	12-4-13

**Notes:**

- 1) Test the switch-over of the pumps based on loss of flow. To test
  - disable the compressors
  - restrict flow on each circuit until flow switch is tripped
  - wait the delay period (approximately 20 seconds)
  - second pump should be activated while the first pump is still running (3 second period)
  - first pump should shut down
  - leave flow switches tripped and wait approximately 20 more seconds
  - second pump should shut down
  - faults should be displayed for both circuit flow faults