

ETL Test Results on Cold-Plus®

Intertek ETL (Edison Testing Lab)* conducted testing on Cold-Plus[®] in a brand-new** 3-ton split unit. The test protocol was to determine the EER rating with and without the Cold-Plus treatment. The following were the test protocols:

- Test took place in a sealed chamber
- Input temperatures were regulated to the same degrees
- Outlet temperatures were regulated by exhausting cooled air to the outside
- Cold-Plus was added 3 oz, 1 oz, 1 oz, 1 oz at a time for a total of 6 oz
- Unit was not allowed to cycle off
- Test runs were for 30 minutes and there were 26 runs
- Standards used were ARI 210/240

Test results (see next page) showed:

- A decrease in starting amperage spike
- A 3% reduction of operating amps
- A 3.3% increase in EER
- Increase in Coolant Flow Rate (>2.5%)
- Increase in C1 Refrigerant of 3.9%
- A 3-4 degree reduction in evaporator coil temperature

The tests showed that the addition of Cold-Plus to a new unit has very beneficial results. In addition, because the unit will cool the room faster you will also get significant reductions in running time and therefore reductions in KWH usage.

The unit should last longer because the operating time per day is decreased.

The testing protocols prevented complete evaluation of the treatment by not allowing the unit to cycle as it would in normal usage and the way the treatment was installed. Our recommendation is for a 50-hour run-in period after installation of Cold-Plus. Our own tests have shown that the addition of Cold-Plus in stages will decrease the effectiveness of the treatment.

Cold-Plus Chief Engineer

(v./b. E.)

ETL Test Report on Cold-Plus Treatment of New Unit

Baseline

Note:

Unit: 3.0 Ton Split
Date: 4/6/2007

Time: 04:50:00 PM-->05:20:00 Standards used: ARI 210/240

Standards used: ARI 210/24
Test Personnel J.Coffman
Model Number: N/A
Serial Number: N/A

Refridge/Charge: Charge ??? Factory R-22

| Expansion Device : TXV Fixed | Barometer | 29.00" Hg | Voltage: 230 Volt 60 Hz | Test Condition : Run # 1 A Test 80/67–95 | Airflow: 1200 SCFM | |

No Blower

Last Run

Locations

Unit: 3.0 Ton Split
Date: 4/12/2007

Time: 06:40:00 AM--->07:10:00

Standards used: ARI 210/240
Test Personnel W.Allen
Model Number: N/A
Serial Number: N/A

Refridge/Charge: Charge ??? Factory R-22

 Expansion Device :
 TXV Fixed

 Barometer
 28.80" Hg

 Voltage:
 230 Volt 60 Hz

 Test Condition :
 Run # 25 Test 80/68 --

Airflow: 1200 SCFM
Note: Added 6 oz Cold-Plus

Added 6 oz Cold-Plus™ Refrigerant Modifier

Average Units

Intertek

New unit without cycling allowed Runs are 30 minutes in a test chamber. Output is exhausted outside test chamber.

Locations	Average	Units
Indoor Dry Bulb	80	Deg F
Indoor Wet Bulb	66.99	Deg F
Discharge Dry Bulb	62.8	Deg F
Discharge Wet Bulb	58.29	Deg F
Discharge Wet Bulb	94.99	
Outdoor Dry Bulb	65.53	Deg F
Outdoor Wet Bulb		Deg F
Discharge @ Comp	186.7	Deg F
Lvg O.D. Psig 1	243.72	PSIG
Saturation Temp	115.29	Deg F
LVG O.D. Coil	105.78	Deg F
Subcool	9.5	Deg F
Entg I.D. PSIG 2	238.18	PSIG
Saturation Temp	113.63	Deg F
Entg I.D. Coil	102.55	Deg F
Subcool	11.08	Deg F
ID Coil Loop #1	48.98	Deg F
ID Coil Loop #2	54.32	Deg F
ID Coil Loop #3	53.11	Deg F
Lvg I.D. Psig 3	78.47	PSIG
Saturation Temp	46.56	Deg F
LVG I.D. Coil	53.3	Deg F
Superheat	6.74	Deg F
Entg O.D. psig 4	78.28	PSIG
Saturation Temp	46.44	Deg F
ENT O.D. Coil	67.12	Deg F
Superheat	20.68	Deg F
	177	Deg F
Vapor O.D. Coil	68.78	
Suction At Comp.		Deg F
Flowmeter	104.65	Deg F
Inlet Grid	80.16	Deg F
Outlet Grid	62.31	Deg F
Tunnel Grid	64.07	Deg F
I.D. Tree	80.2	Deg F
O.D. Tree # 1	95.57	Deg F
O.D. Tree # 2 O.D. Tree # 3	94.57	Deg F
O.D. Tree # 3	95.14	Deg F
FlowMeter 1	0.86	GPM
Voltage (A to B)	231.55	Volts
Voltage (B to C)	232.22	Volts
Voltage (C to A)	230.61	Volts
Amps 1	9.16	Amps
Amps 2	8.13	Amps
Amps 3	7.6	Amps
kWatts 1	1.13	Kwatts
kWatts 2	0.8	Kwatts
kWatts 3	0.89	Kwatts
Cond. Unit Kwatts	2.84	Kwatts
Kwatt Total	3.283119	Kwatts
Frequency	59.9	Hz
C1 Flow Rate	488.58	lb/Hr
	33975.94	BTU/Hr
C1 Refrigerant		
Total Refrigerant	33975.94	BTU/Hr
Unit Static	-0.21	In water
Dis Air Flow	1250.48	CFM
Dis Air Flow 2	1203.07	SCFM
Sensible Capacity	22749.7	BTU / Hr
Orono Air Old - O	34543.03	BTU / Hr
Gross Air Side Capacity		DTIL / III-
Net Air Side Capacity	33039.2	BTU / Hr
		BTU / Hr BTU/W x Hr Air / Ref

Indoor Dry Bulb Indoor Wet Bulb Discharge Dry Bulb Discharge Wet Bulb Outdoor Dry Bulb Outdoor Wet Bulb Outdoor Wet Bulb Discharge @ Comp Lvg O.D. Psig 1 Saturation Temp LVG O.D. Coil Subcool Entg I.D. PSIG 2 Saturation Temp Entg I.D. Coil Subcool ID Coil Loop #1 ID Coil Loop #2 ID Coil Loop #3 Lvg I.D. Psig 3 Saturation Temp LVG I.D. Coil Superheat Entg O.D. psig 4 Saturation Temp ENT O.D. Coil Superheat Vapor O.D. Coil Superheat Vapor O.D. Coil Superheat IVapor O.D. Coil Superheat IVapor O.D. Coil Superheat IVapor O.D. Coil Superheat IVapor O.D. Coil Superheat INT O.D. Coil	80 68 63.27 59.57 92.02 82.81 181 233.18 112.12 105.36 6.76 228.79 110.75 101.8 8.95 48.69 55.88 54.06 80.7 48 55.9 7.9 80.55 47.9 69.75 21.85	Deg F PSIG Deg F PSIG Deg F Deg F PSIG Deg F
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Superheat Vapor O.D. Coil Suction At Comp. Flowmeter Inlet Grid		Deg F
Vapor O.D. Coil Suction At Comp. Flowmeter Inlet Grid	21.00	Deg F
Suction At Comp. Flowmeter Inlet Grid	474 47	
Flowmeter Inlet Grid	171.47	Deg F
Inlet Grid	71.44	Deg F
	103.6	Deg F
Outlet Grid	80.26	Deg F
	62.73	Deg F
Tunnel Grid	64.51	Deg F
I.D. Tree	80.32	Deg F
O.D. Tree # 1	92.17	Deg F
O.D. Tree # 2	92.75	Deg F
	91.41	Deg F
O.D. Tree #3		
FlowMeter 1	0.88	GPM
Voltage (A to B)	229.96	Volts
Voltage (B to C)	230.78	Volts
Voltage (C to A)	229.08	Volts
Amps 1	8.89	Amps
Amps 2	7.9	Amps
Amps 3	7.38	Amps
kWatts 1	1.04	Kwatts
kWatts 2	0.77	Kwatts
kWatts 3	0.92	Kwatts
Cond. Unit Kwatts	2.73	Kwatts
	3.173801	Kwatts
Frequency	59.9	Hz
C1 Flow Rate	501.42	lb/Hr
	35293.23	BTU/Hr
	35293.23	BTU/Hr
Unit Static	-0.21	In water
Dis Air Flow	1263.68	CFM
Dis Air Flow 2		SCFM
	1204.94	
	22187.79	BTU / Hr
	34475.16	BTU / Hr
	32968.99	BTU / Hr
EER (COP)	10.39	BTU/W x Hr
Refrigerant Balance	97.68	Air / Ref

Difference after Cold-Plu	S TM	
Locations	Difference	Percent
Indoor Dry Bulb	0	0.0%
Indoor Wet Bulb	1.01	1.5%
Discharge Dry Bulb	0.47	0.7%
Discharge Wet Bulb	1.28	2.2%
Outdoor Dry Bulb	-2.97	-3.1%
	17.28	26.4%
Outdoor Wet Bulb		
Discharge @ Comp	-5.7	-3.1%
Lvg O.D. Psig 1	-10.54	-4.3%
Saturation Temp	-3.17	-2.7%
LVG O.D. Coil	-0.42	-0.4%
Subcool	-2.74	-28.8%
Entg I.D. PSIG 2	-9.39	-3.9%
Saturation Temp	-2.88	-2.5%
Entg I.D. Coil	-0.75	-0.7%
Subcool	-2.13	-19.2%
ID Coil Loop #1	-0.29	-0.6%
	1.56	2.9%
ID Coil Loop #2	0.000 757 750	
ID Coil Loop #3	0.95	1.8%
Lvg I.D. Psig 3	2.23	2.8%
Saturation Temp	1.44	3.1%
LVG I.D. Coil	2.6	4.9%
Superheat	1.16	17.2%
Entg O.D. psig 4	2.27	2.9%
Saturation Temp	1.46	3.1%
ENT O.D. Coil	2.63	3.9%
Superheat	1.17	5.7%
Vapor O.D. Coil	-5.53	36000000
	2.66	3.9%
Suction At Comp.		0.000000
Flowmeter	-1.05	-1.0%
Inlet Grid	0.1	0.1%
Outlet Grid	0.42	0.7%
Tunnel Grid	0.44	0.7%
I.D. Tree	0.12	0.1%
O.D. Tree # 1	-3.4	-3.6%
O.D. Tree # 2	-1.82	-1.9%
O.D. Tree # 3	-3.73	-3.9%
FlowMeter 1	0.02	
Voltage (A to B)	-1.59	-0.7%
Voltage (A to B)		
Voltage (B to C)	-1.44	-0.6%
Voltage (C to A)	-1.53	
Amps 1	-0.27	-2.9%
Amps 2	-0.23	-2.8%
Amps 3	-0.22	-2.9%
kWatts 1	-0.09	-8.0%
kWatts 2	-0.03	-3.8%
kWatts 3	0.03	3.4%
Cond. Unit Kwatts	-0.11	-3.9%
		-3.3%
Kwatt Total	-0.10932	4
Frequency	0	0.0%
C1 Flow Rate	12.84	2.6%
C1 Refrigerant	1317.29	3.9%
Total Refrigerant	1317.29	3.9%
Unit Static	0	0.0%
Dis Air Flow	13.2	1.1%
Dis Air Flow 2	1.87	0.2%
Sensible Capacity	-561.91	-2.5%
Gross Air Side Capacity	-67.87	-0.2%
Net Air Side Capacity	-70.21	-0.2%
	0.33	3.3%
EER (COP)	-3.99	-3.9%
Refrigerant Balance		

*Why Intertek ETL

Intertek's expertise is backed by 120 years of product testing, which began when Edison established the Lamp Testing Bureau. It was later renamed 'Electrical Testing Laboratories', giving start to the nationally recognized ETL label. Known worldwide for providing product testing solutions, Intertek ETL and its many global partners have built upon Edison's initial foundation and now provide the most efficient path to energy savings testing.

Intertek is the largest tester of consumer goods in the world and has a network of more than 1,000 laboratories across around 100 countries. Intertek has been testing HVAC/R for over six decades and has partnered with AHRI (Air-Conditioning, Heating, and Refrigeration Institute) for over 50 years. Intertek certifies that HVAC/R equipment used in the US and abroad meets the performance claims by manufacturers when measured by the standards established by AHRI.

**Why a Brand-New Unit

By using a completely new unit, there is no possibility of existing oil fouling to contaminate test results. This allows us to prove unequivocally that Cold-Plus improves the thermodynamics of the A/C process even when there is no oil fouling to be removed.