



## Commissioning Checklist:

- Nitrogen purge used during brazing
- Vacuum pulled below 500 microns & hold test passed
- Service valves fully open
- Refrigerant charge weighed in
- Superheat verified
- Subcooling verified
- Airflow verified
- Pressures recorded in COOL, DEHUMID & HEAT MODE
- Supply & Return Temps Recorded (Delta) In All Modes

## R32- Refrigerant Charging Calculations

DHVAC-3T - Factory Charge 8lbs - 15ft Lineset - Add .7oz per foot

DHVAC-5T - Factory Charge 11lbs - 15ft Lineset - Add 1.35oz per foot

DHVAC-10T - Factory Charge 18lbs - 15ft Lineset - Add 2oz per foot

## Field Reference Targets (Grow Room 75°F / 55% RH)

Typical R32 grow room operation:

Suction: 118–145 PSI

Head Pressure: 360–450 PSI

Evap Saturation: ~45–52°F

Condensing Temp: ~95–105°F

# Subcooling Charging Zones (TXV Systems)

Zone	Subcooling (°F)	Condition	Action
LOW	0–5	Undercharged / Flash Gas	Add refrigerant
TARGET	6–9	Correct Range	Leave it
HIGH	10–14	Slightly High	Monitor / minor recover
HIGH	15+	Overcharged	Recover refrigerant

## Target Reference:

- Standard: 8°F ± 1°
- Some units: 5–7°
- Long line: 14–18°F (indoor)

## Field Rule:

- Charge by SUBCOOLING. Ignore suction pressure on TXV systems.
- Factory SUPERHEAT is set at 7.5°F

### TriCleanAir – R32 Pressure-Temperature (PT) Chart (PSIG)

Low Zone (<300)	Normal (300–450)	High (>450)
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#### LOW SIDE (20–75°F)

#### HIGH SIDE (75–140°F)

Sat Temp (°F)	Pressure (PSIG)	Sat Temp (°F)	Pressure (PSIG)
20	14	75	161
25	26	80	190
30	37	85	223
35	46	90	262
40	55	95	308
45	65	100	360
50	75	105	420
55	87	110	488
60	101	115	564
65	117	120	650
70	137	125	746
75	161	130	853

**Cultivated Solutions For Optimal Growth**

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