

END OF LINE TESTING

AN UNCOMMON COMMITMENT TO QUALITY


Valent tests every unit before it leaves the factory. Coupled with Valent's embedded controls platform, the end of line test ensures a fast and trouble-free start up when the unit arrives at its destination.

COOLING SYSTEM PRESSURIZED

- All compressors are run to verify that operating pressures and temperatures are within specifications
- Refrigeration circuits are pressurized and held at 475 psi as a final leak check
- Subcooling and superheat parameters are measured, adjusted, and documented in the end of line test report to ensure proper charge, performance, and compressor reliability

MECHANICAL COMPONENTS TESTED

- Every fan assembly is vibration tested prior to placement in the unit
- All mechanical components are cycled through their entire range to ensure proper operation:
 - **Fans** – Verify proper rotation and confirm proper RPM of each fan to deliver design airflow
 - **Dampers** – Cycle through damper operation for complete movement, verify wiring of actuator
 - **Furnaces** – Set high fire and low fire to verify range of functionality, then cycle through high to low to ensure furnace runs without interruption
 - **Compressors** – Verify proper rotation, check proper wiring of crankcase heater
 - **Enthalpy Wheel** – If applicable, verify wheel rotation and confirm rotation sensor operation (DOAS only)
 - **Accessories** – Based on the unit configuration, all optional accessories are checked and verified



December 16, 2021

FACTORY TEST CERTIFICATE

Sales Order: 8598123 **Line:** 20 **Material:** X-SERIES
Production Order: 130642451 **Inspection Lot:** 030003865547
Description: DEDICATED OA SYSTEM X-SERIES

Serial Number: 19103764 **Tag:** 100% OA - Floor

Orifice Size #1	42
Gas valve #1 serial number	66022824
Gas valve #2 serial number	66022804
Gas Train Assembled Per Drawing	PASS
Correct Spring Installed	PASS
Gas Valves In Correct Flow Orientation	PASS
Correct Gas Valve Installed	PASS
Gas Connections Are Tight	PASS
PO Marked On Gas Train	PASS
Compressor #1 Serial Number	21B1A221L
Clean Flux	PASS
Professional Looking Braze Joints	PASS
Straight Pipe Runs	PASS
Components In The Correct Orientation	PASS
Tubes Capped	PASS
Shrader Caps Installed	PASS
Nozzle Installed In DX Coil	PASS
Crankcase Htr Correct Orient and Trimmed	PASS
Employee Number - PIPE AND BRAZE #1	25555
Flame Safeguard #1 Serial Number	C186P9U-2-W2145
Flame Safeguard #2 Serial Number	C161L9C-2-W2143
Tubes Properly Crimped	PASS
Union Tight and Marked	PASS
IG Burners Centered In Shoot Thru	PASS
Ignitor and Flame Sensor Installed	PASS
Ignitor Centered With Burner	PASS

The detailed Factory Test Certificate is shipped with every Valent unit.

CONTROLS PROGRAMMED

- Pre-engineered control sequences are loaded into the controller with factory defaults assigned
- VFDs are programmed and tested
- Sensor wiring and functionality are confirmed

LEARN MORE ABOUT VALENT'S QUALITY

- www.valentair.com
- [Watch a DOAS End of Line Test video](#)
- Schedule a factory visit to see an end of line test in person.
- [Contact your Valent Representative.](#)

