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FACT SHEET Number 02/2003

July 2003

GENERIC PRE-TRIP INSPECTION CHECKLIST

INFORMATION FOR SHIPPING COMPANIES AND THEIR AGENTS

The following generic procedures have been put together only as a guide to PTI procedures that could be adopted by various shipping companies and their refrigerated container equipment-handling contractors. These procedures are not intended to override PTI procedures recommended by the manufacturer of a particular refrigerated container or the procedures set up by an individual shipping company.

It must be noted that some refrigerated containers have the inherent capacity to perform its own PTI correct defects and if necessary send out signals/alarms or messages so that the problems that cannot be rectified can be addressed by the intervention of a refrigerated technician.

ADMINISTRATION CHECK

Check and record machinery type and manufacture date - record on PTI form

Check refrigerant type and record on PTI form

Check and record if unit is fitted with battery pack or not

VISUAL CHECK

Container inspection - in accordance with Company Container Inspection Criteria

Check container for odours, dirt and water

Check container doors and gaskets

Check baffle plate (present and tight)

Unit / Machinery Inspection

Check unit for impact damage; exterior and interior

Check condition condenser coil(s) and flush with fresh water

Check condition condenser fan blade(s) (corrosion, cracks and balance)

Check condition hose(s) and kazoo(s)

Check unit and components mounting bolts all tight and present

Check fresh air cover and gasket condition

Check Control box and Partlow box - do not repair if equipped with datacorder

Check for missing parts

Check air pressure switch for damage. (Everfresh only)

Check defrost heater, wiring and mounting

Check all cable connections for watertight connections with Shrinks

Check cable length, voltage (380v)

Check Cable for splices, splits, sleeves, grommets, record results
Check Power plugs for safety pin, burnt pins

Items to be visually checked before connecting the unit:

Check if on/off switch is in OFF position also CB1 and CB2
Check pressure reading on gauges
Check moisture indicator on sight glass
Check oil level compressor

Items to be visually checked before connecting the unit (cont.):

Check refrigerant lines and components for oil traces and leaks
Check wiring for damage, corrosion and bad connections inside Control boxes
Check all contactor points and coils
Check if all sensors (especially supply and return air) are correctly connected
Check whether all relevant modifications have been carried out
Check Power plug for safety pin, ring, water tightness and burned pins
Check Power cable for damages and splices (unlimited) and length (minimum 6 metres per 20' and 10 metres per 40')
Connect unit to power supply
Check and Record ambient temperature

Run unit and check at setting 0°C
Switch on unit and check for abnormal noises
Check display temperature. Partlow reading and compare both with Simpson meter
Check indicator lights working (cool / defrost / in range / etc)
Take out and interpret old chart (if in place)
Rewind clock or check battery (if applicable)
Fill out and replace old chart - if applicable
Reset microprocessor (if applicable) depending on model
Start the short self-diagnostic function (minimum A-PTI) on the microprocessor
Fill out header of PTI repair report
Check airflow evaporator section inside container
Check full capacity running condition
Check unit is modulating

When box temperature has reached 0°C, check:

Partial cool functions (modulating/unloading/hotness by-pass, etc.)
Partlow reading with setting and display (take into account position of Partlow element bulb)
Heat function / check working correctly
Compressor ON/OFF
In range indication
Humidity control functions if applicable
Switch on dehumidification set RV 80%
RV > 85% pulsing heaters
RV < 85% pulsing heaters and reduced evaporator surface (DHV valve) watch % RV reduce
Watch water draining from drain hose
Watch pulsing supply LED

Activate manual defrost and check working correctly
Switch off unit and unplug unit cable
Carry out megaohm test according to PTI repair report (minimum 0.5 megaohm)
Carry out megaohm test on Power cable, plug and transformer (if applicable)
Measure resistance of modulating valve coil (if applicable)
Plug in unit cable again with phase reversal check cable
Adjust Set Point to -18°C and switch on unit and check phase reverse system

Measure all unit amps according to PTI repair report (amps always to be measured in ???)
Full cool, container temp. 0°C, setting -18°C)
Check Freon flow in sight glass-moisture indicator and level in receiver (if applicable)
Check refrigerant lines and component connections for leaks
Check suction and discharge pressure on unit gauges (if applicable)
Check high-pressure switch
Activate manual defrost and check defrost timer (if applicable)
Place drain checker
Measure heater amps

Run to and check at setting -18°C

Check Freon and oil level
Read and remove drain checker
Check thermostat functions at -18°C (in range/compressor. Off/On)
Check switch over point chill/freeze mode, by changing temperature setting
Check defrost and pull downtime, running of Partlow clock if applicable

Check working thermostatic expansion valve
Check for eventual alarms, read out and reset them after interpretation
Set defrost timer to 6 hrs interval

Set temperature to the Set Point as per the procedure adopted by the shipping company. This could be 0°C, - 18°C or the Set Point requested by the shipper)
Switch off the unit and unplug

Final check

Roll up Power Cable
Remove old PTI- and temperature decals
Renew Partlow chart - if applicable
Wind Partlow clock if applicable
Place new PTI OK decal and other necessary information decals
Complete PTI report

Please note that the above procedures are generic and do not override PTI procedures recommended by the manufacturer of a particular refrigerated container or container or the procedures set up by an individual shipping company.

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| Published by the Shipping Australia Limited Level 6, 131 York Street SYDNEY NSW 2000 ABN. 61 096 012 574 |
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