

**Point of Manufacture – IRN20H-CC, IRN25H-CC, IRN30H-CC, IRN40H-CC (Campbellsville, US)  
IRN15K-CC, IRN18K-CC, IRN22K-CC, IRN30K-CC (Unicov, Czech Rep)**

## STANDARD SCOPE OF SUPPLY

All NIRVANA units come complete with the following -

### INLET AIR FILTER

The inlet air filter is 99.9% efficient at 3 microns and above.

### AIREND

The airend consists of high efficiency asymmetric profiled, precision machined rotors, within a housing made from high quality, close grain cast iron. Taper roller thrust and roller bearings are used on all NIRVANA models

### COOLANT/AIR SEPARATION

A pre-separator performs the dual functions of removing bulk coolant from the compressed air and providing a sump for the coolant. The pre-separator contains the following features:

- Pressure relief valve
- Coolant sight level
- Minimum pressure/check valve
- Scavenge line to airend inlet
- Coolant drain valve
- Coolant filler plug
- Easy maintenance separator

### INTELLIDRIVE

The IntelliDrive incorporates a Variable Frequency Drive unit that controls the speed, to deliver the right amount of air, to the system.

The IntelliDrive allows great flexibility and can operate over a range of input voltages. IntelliDrive can operate effectively at different power limits.

NIRVANA can be arranged to operate with power limited to 15kW (20hp) to 18kW (25hp) and 22kW (30hp) to 30kW (40hp) and also allows for any future power changes that are required, via the IntelliKey. The soft start of the

IntelliDrive gives a low inrush current, which can allow frequent stop and re-start cycles.

NIRVANA gives the operator a choice of either running VSD or Auto Start/Stop control, and is also capable of pressure trim adjustment that allows the NIRVANA to run at target pressures of 4.5 barg (65 psig) to 10 barg (150 psig).

### INTELLIKEY

The IntelliKey allows simple 15kW (20hp) to 18kW (25hp) and 22 (30hp) to 30kW (40hp) capacity adjustments.

### DRIVE MOTOR

Variable speed, totally enclosed main drive motor direct drives the airend, and is designed to operate in ambient conditions up to 40°C (104°F). When operating at maximum compressor load, the winding temperature rise is limited to 15°C (27°F) below that permitted by the design code.

### ENCLOSURE

The enclosure is powder coated steel with acoustic foam to keep sound levels to a minimum and is separated into three distinct, sections, the blower/cooler, the drive, and the airend module.

### COOLANT FILTER

The coolant filter is a high capacity 5-micron, replaceable Spin-on element with pressure bypass

### CONTROL PANEL - GENERAL

The control panel incorporates a an User Interface for the IntelliDrive - which has Start / Stop Keys, Display Keys, Navigation Keys, Information Key,

LED status indicators and LCD display screen. The LCD display screen shows the status of the machine, percentage savings, maintenance intervals, warnings and alarms, Setup and Service Screens. The control Panel also includes an emergency stop and dew point indicator.

### COOLERS

NIRVANA compressors come with an integrally mounted air-cooled combination cooler of tube and fin design. Constructed from aluminium, it is rated for full load continuous duty. The after cooler cools the compressed air prior to discharge from the package. NIRVANA is rated to operate in ambient temperatures from 2°C (35°F) up to 40°C (104°F)

### TEMPERATURE PROTECTION

Should the compressed air temperature exceed 109°C (228°F) at the airend discharge, the controller will shut down the compressor, and illuminate the fault indicator.

### BASEPLATE

A one-piece folded mild steel base, with steel strengthening supports.

### COOLANT

NIRVANA is factory filled with Ingersoll Rand Premium Compressor Coolant; a PAG advanced synthetic lubricant, providing better cooling characteristics, reduced wear through improved lubrication, and has a longer operating life than other synthetic lubricants.