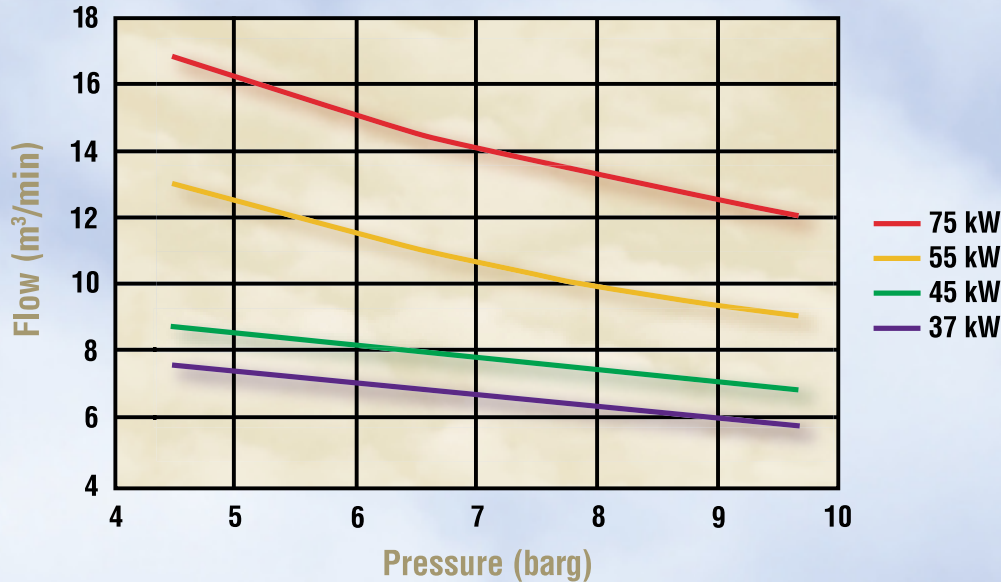


# Nirvana

## Technical Information

Nirvana Full Load Performance



## Full Load Performance

### Full Load Selector

The chart to the left represents the full load flow for a Nirvana compressor across the full pressure spectrum available.

### Selection Example

In this example, the peak demand side usage is 13.3 m³/min. Reading 7.0 barg line up the chart until it crosses 13.3 m³/min shows that a 75 kW Nirvana is needed to achieve peak demand requirements.

## Part Load Turndown Data

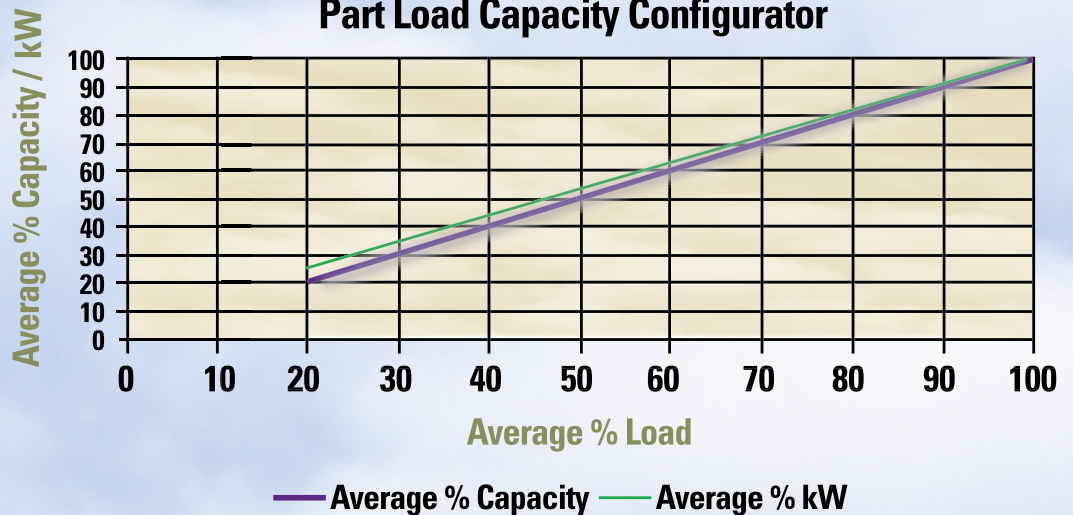
### Part Load Scenario

The chart to the right represents an estimated percent of capacity at partial loads for any of the Nirvana compressors selected above.

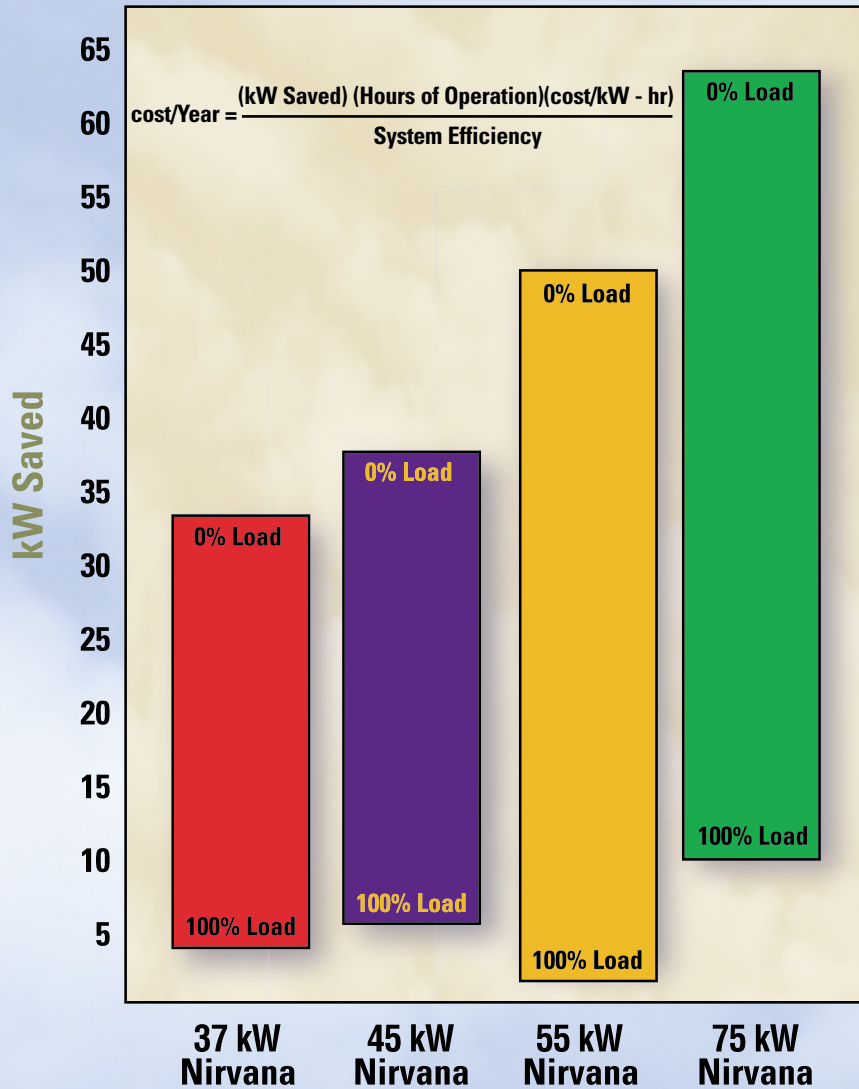
### To continue the example above:

The average demand side load is only 70% for a 75 kW Nirvana. Reading 70% load up to the intersection shows that Nirvana would be at 70% capacity and 71% of its available kW vs. 80% for a standard rotary screw.

Part Load Capacity Configurator



## Performance Efficiency



### Energy Savings Estimator

The bar graph to the left represents the kilowatts saved across the full operational range of a Nirvana compressor when compared to a rotary screw air compressor operating in modulation.

### To finish the example:

The green bar illustrates a 75 kW Nirvana. At 70% load, the Nirvana will save 30 kW per year. Use the formula at the top of the graph to calculate the yearly energy savings.

## Weights and Dimensions

Model	Nominal kW/HP	L (cm/in)	H (cm/in)	W (cm/in)	Weight (lbs/kg)	Cooling Air Flow (m <sup>3</sup> /min/cfm)	Discharge (BSP)
IRN37K-CC	37/50	157.5/62	177.8/70	134.6/53	1089/2400	184/6500	1.5
IRN45K-CC	45/60	157.5/62	177.8/70	134.6/53	1089/2400	184/6500	1.5
IRN55K-CC	55/75	180.3/71	195.6/77	134.6/53	1542/3400	241/8500	2.0
IRN75K-CC	75/100	180.3/71	195.6/77	134.6/53	1542/3400	241/8500	2.0



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