

Customer Name : PT.MULTISPUNINDO JAYA

Electrical Cost per Years (Air Compressor)

Type Compressor	Spesifik Power Consumption x Electrical cost per KWH x Flow Demand x Power Ratio x Total Running Hour per Year	
37KW (Fixed Speed)	$5.5 \times 1200 \times 6.7 \times 100\% \times 8000$	= Rp.353.760.000 / 12 Month = Rp.29.480.000/month
55KW (Inverter)	$5.44 \times 1200 \times 10.1 \times 100\% \times 8000$	= Rp.527.462.400/12 Months = Rp.43.955.200/month
132KW (Fixed Speed)	$5.5 \times 1200 \times 24 \times 100\% \times 8000$	= Rp.1.267.200.000/12 Months = Rp.105.600.000/month
132KW (Inverter)	$4.63 \times 1200 \times 28.5 \times 100\% \times 8000$	= Rp.1.266.768.000/12 Months = Rp105.564.000/month

Data Assumptions :

Flow 37KW (Fixed Speed)	6.7 m3/min
Flow 55KW (Inverter)	10.1 m3/min
Flow 132KW (Fixed Speed)	24 m3/min
Flow 132KW (Inverter)	28.5 m3/min
Spesifik Power Consumption 37KW (Fixed Speed)	$37KW/6.7 \text{ m3/min} = 5.5 \text{ KW/m3/min}$
Spesifik Power Consumption 55KW (Inverter)	$55KW/10.1 = 5.44 \text{ KW/m3/min}$
Spesifik Power Consumption 132KW (Fixed Speed)	$132KW/24 = 5.5 \text{ KW/m3/min}$
Spesifik Power Consumption 132KW (Inverter)	$132KW/28.5 = 4.63 \text{ KW/m3/min}$
Electrical Cost per KWH	1200 per KWH
Estimasi Total Running Hour per Year	8000 Hour

Resume :

Electrical Cost

Capacity	Cost/months		Cost/2 months	
37KW (Fixed Speed)	IDR	29,480,000	IDR	58,960,000
55KW (Inverter)	IDR	43,955,200	IDR	87,910,400
132KW (Fixed Speed)	IDR	105,600,000	IDR	211,200,000
132KW (Inverter)	IDR	105,564,000	IDR	211,128,000