

Case study 1. Energy Saving Turbo Blower

Energy Saving

Spec Equipment	Other	Hi-Core Turbo Blower
Type Blower	Roots Blower	Turbo Blower
Model	MFSR-150	HC150-06
Outlet Size (mm)	150 mm.	250 mm.
Flow (m3/min)	22 m3/min	105 m3/min
Pressure (mmAq)	4.5 mmAq	6 mmAq
Quantity	4 Unit	1 Unit
Operate	4 Unit	1 Unit
Power Consumption/Unit	30 kw	110 kw
Tota Flow Consumption	88 m3/min	105 m3/min
Total Power Consumption (actual use point)	96 kw	71.5 kw
Energy Saving		
Working hours per day (Day)	24 Hr	24 Hr
Electricity charge (Baht/unit)	4.1 Baht	4.1 Baht
ค่าไฟต่อวัน	9,446.40 Baht	7,035.60 Baht
ค่าไฟต่อเดือน	283,392.00 Baht	211,068.00 Baht
ค่าไฟต่อปี	3,447,936.00 Baht	2,567,994.00 Baht
Energy Saving / Year	0 Baht	879,942.00 Baht
Electric Control Panel	Control Panel	
Invertor	Non	Yes
PLC	Non	Yes
HMI (Touch screen)	Non	Yes
Electric Protechion	Non	Yes
Constant Power function	Non	Yes
Constant Speed fuction	Non	Yes
Constant Flow function	Non	Yes
Oil & Grease	Non	Yes
Filter	Mainternace	Non
Noise	Yes	Yes
Varanty	Yes	< 85
Service	85 >	2 Year
Price	-	Free Mainternace 2 Year
Payback Period	-	
		1,459,200.00 Baht
		1.7 Year