

Air Equipment Efficiency scorecard

Supply Side Evaluation	Grade	1	2	3	4	Comments
Compressor type (for multiple compressors show highest type)	4	piston		Fixed Screw	VSD screw	for multiple compressors show highest type
Is compressor system running more than 70% loaded	3	<20% Loaded			>70% loaded	When the system running normally is the compressor being used running >70% loaded?
Receiver storage size (receiver size (l)/compressor size (l/s))	3	None	small (X < 5.9)	Medium (6<X<8)	Large (X > 8)	Include flow rate for all compressors
System control for single or multiple compressors	3	start / stop	Start / Stop with Timer	Electronic Controller	Standalone Controller	Use electronic controller for multiple machines only if they are 'daisy chained'
Compressed air sources to pipework (single / multiple plant rooms)	4	multiple			single	How many stand alone sources of compressed air are there (eg plant rooms)
Fridge dryer fitted (Leave blank if not fitted)	2		Non Cycling (standard)		Cycling fridge dryer	If a fridge dryer is fitted what sort is being used? (Leave blank if not fitted)
Desiccant dryer fitted (Leave blank if not fitted)			Non dew point control	Dew point control	Zero purge	If a desiccant dryer is fitted what sort is being used? (Leave blank if not fitted)
Condensate drain type (1 if not fitted)	2	Manual valve	Timed drain		zero loss drain	What type of condensate drain is being used?
Heat recovery system installed	1	No			Yes	Has any form of heat recovery been installed on site? Is hot air re-direct feasible?
Active service programme	4	None		Ad hoc	Maintenance contract	Is there an active regular servicing programme being used? Is it following manufacturer
Has data logging been carried out	2	None	> 5 years ago	>2 years ago	Annual	Has data logging been used on site in the past?
Plant room ambient (operating) temperature	1	Hot & no ventilation			Cool & well ventilated	Use '2' or '3' for intermediate plant rooms
Is the system fitted with iconn remote reporting	1	No		Partial	All compressors	Is there any remote reporting fitted to the compressors?
Demand Side Evaluation						
Excessive pressure (is the compressor set pressure too high)	2	>3 bar	2 bar	1 bar	<1bar	Degree that the compressor pressure is set above minimum system required pressure
Open blowing applications (not leaks)	3	>10	5-9	4-1	none	How many un-controlled free flow points are there?
Leak survey / repair programme	2	None			Annual	Is air leak survey programme in place? (degrade score if repairs not completed)
Scale of leaks identified / estimated	2	>30%	<30% leaks >10%	<10% leaks > 5%	<5% compressor capacity	% of compressor capacity identified / assumed feeding leaks
Inappropriate use of air tools	4	Yes			No	Are air tools being used appropriately? (score '2' or '3' for degree of mis-use)
Distribution pipework layout	3		Branch		Ring main	Are majority of drops off a ring main?
Type of pipework	1	All traditional style	<50% smooth	>50% smooth	All high efficiency	High efficiency, smooth bore aluminium system or traditional rough galv system
Distribution pipework sizing	2	Undersized vs compressor size			Good	<50cfm = 3/4, <100cfm = 1", <200 cfm 1.5", <400 cfm 2"
Plant room pipework sizing (use flow rate of all compressors)	3	Undersized vs compressor size			Good	Plant room pipework bigger than distribution?

Overall system score	2.48
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(Best efficiency = 4, poorest efficiency = 1)