



# **FUTURE MOTORS**

**PROPOSAL FOR  
XYZ COMPANY LTD**

# CONTENTS



**Payback and savings at a glance**



**Fan Arrays - our scope**



**Motor Changes Only - our scope**



**Next steps**



**Appendix - The details**



**We also need you to know**






**Thank you**





# PAYBACK & SAVINGS AT A GLANCE



TOTAL COST	£	£XXX,XXX.XX
TOTAL SAVINGS	£	£XXX,XXX.XX PER ANNUM
ENERGY REDUCTION	%	XX%
CO2 REDUCTION		XX TONNES PER YEAR
TOTAL KW HOURS SAVED		XX KW HOURS
RETURN ON INVESTMENT		X.X YEARS

\*Savings based on .XXX pence per KW

# FAN ARRAYS

## - OUR SCOPE OF WORKS

- Provide method and risk assessments.
- Carry out technical survey to include obtaining existing total pressures (recorded) to compare with the data from the client re the AHU design and to measure for new components.
- Provide fan selection including fan curves showing the actual air volume against the speed and pressure.
- Isolate the AHU and lock off the power supply.
- Disconnect the existing fan and retain the existing power supply to re-use.
- Remove the existing fan, motor assembly and fan frame.
- Supply and install new metal work to allow for the fan wall to be installed, along with suitable support framework for the top-level fans, the new additional framework would be manufactured from galvanised steel.
- Supply and install a suitable TP+E distribution board complete with suitably sized main switch and suitable outgoing TP MCB's.
- Extend from the distribution board with LSF SWA to the new fan assemblies interconnecting the locally mounted speed controllers and locally mounted isolators.
- Complete all terminations at the distribution board and ancillaries in accordance with the IEE wiring regulations.
- Change the existing lighting within the fan section to suit the new layout.
- Supply and install manual shut off damper per fan c/w lockable handle (should a fan fail).
- **Modify the existing door arrangement to suit the new layout and fit door guard.**
- **Supply and install positive pressure warning label on the new access door.**
- **Run and test the new fans in conjunction BMS specialist and set fans to speed to suit the required air volume and pressure.**
- **Remove all redundant materials in conjunction with the Future Motors scope only. To be discussed**
- **Provide electrical certifications for all electrical alterations upon completion of works.**
- **Provide full handover details & O&M information for the new fans**



# MOTOR CHANGES ONLY

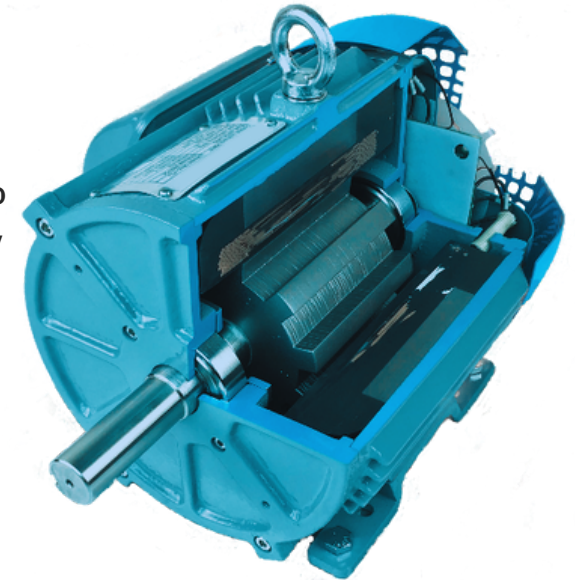
## - OUR SCOPE OF WORKS

- Provide method and risk assessments.
- Carry out technical survey to include obtaining existing total pressures (recorded) to compare with the data from the client.
- Isolate the AHU and lock off the power supply.
- Electrically disconnect the existing power to the single motor.
- Remove the existing fan motor.
- Supply and install Motor and associated frame conversion kit where required.
- Replace existing Belts, Pulley's and Taper locks
- Run and test the fan with the new motor fitted and set fans to speed to suit the required air volume and pressure.

- Remove all redundant materials in conjunction with the Future Motors scope only. To be discussed
- Provide full handover details & O&M information for the new fans.

### Exclusions (unless otherwise stated)

- BMS / Control's connection / disconnection / modification
- Project management
- Validation/revalidation and commissioning. (Setting fans back to original pressures only as per survey findings)
- Anything not specifically mentioned above.



# NEXT STEPS

On receipt of your order Future Motors, will carry out a more in-depth survey. The additional survey will include:

- Measure the airflow at 100%, 75%, 50% of the existing motor
- Measure the static pressure at each point
- Measure the internals of the existing AHUs to prepare drawings for the fan array assemblies and any AHU modifications required including moving access doors where required.
- Issue Fan Impellor selection data (Fan Arrays only)



# APPENDIX THE DETAILED COMMERCIALS





# INDICATIVE PROPOSAL

Customer :  
Site :

AHU Reference	Existing Motor			Proposed Solution	New Motor(s)	Qty	New Total Capacity (Kw)*	Total	Daily Run Hours	Days	Annual Run Hours	Current Energy Usage kWh / Year	Current Energy Cost / Year	Proposed Energy Saving (%)	Proposed Energy Saving (kWh)	Proposed Energy Saving (£'s)	Carbon Reduction (tCO2e / Year)
	Qty	Size (Kw)	Calculated Duty														
AHU 1 Pool Unit Supply	1	15.0	9.68	Fan Array	VO3	2	15	£ 25,393.86	24	7	8736	84528.58	£ 36,516.34	32%	27049.14	£ 11,685.23	5.68
AHU 1 Pool Unit Extract	1	13.0	7.04	Fan Array	VO3	2	15	£ 25,393.86	24	7	8736	61516.59	£ 26,575.17	32%	19685.23	£ 8,004.05	4.13
AHU 2 Pool Unit Supply	1	15.0	9.68	Belts & Pulleys	VO3H	1	10.5	£ 5,209.00	24	7	8736	83886.76	£ 36,238.86	32%	20971.57	£ 8,009.72	4.40
AHU 2 Pool Unit Extract	1	11.0	7.04	Belts & Pulleys	VO3H	1	10.5	£ 5,209.00	24	7	8736	61516.59	£ 26,575.17	25%	15379.15	£ 6,643.79	3.23
AHU 3 Pool Unit Supply	1	11.0	7.04	Belts & Pulleys	VO3H	1	10.5	£ 5,209.00	24	7	8736	61516.59	£ 26,575.17	25%	15379.15	£ 6,643.79	3.23
AHU 3 Pool Unit Extract	1	11.0	7.04	Belts & Pulleys	VO3H	1	10.5	£ 5,209.00	24	7	8736	61516.59	£ 26,575.17	25%	15379.15	£ 6,643.79	3.23
AHU 4 Café Gym Supply	1	7.5	4.80	Belts & Pulleys	VO3H	1	10.5	£ 5,209.00	24	7	8736	41943.13	£ 18,119.43	24%	10066.35	£ 4,348.66	2.11
AHU 4 Café Gym Extract	1	4.0	2.56	Belts & Pulleys	VO3H	1	10.5	£ 5,209.00	24	7	8736	22369.67	£ 9,663.70	24%	5368.72	£ 2,310.59	1.13
AHU 5 Change areas Supply	1	7.5	4.80	Belts & Pulleys	VO3H	1	10.5	£ 5,209.00	24	7	8736	41943.13	£ 18,119.43	24%	10066.35	£ 4,348.66	2.11
AHU 5 Change areas Extract	1	7.5	4.80	Belts & Pulleys	VO3H	1	10.5	£ 5,209.00	24	7	8736	41943.13	£ 18,119.43	24%	10066.35	£ 4,348.66	2.11
AHU 6 Supply	1	2.2	1.41	Belts & Pulleys	VO1	1	2.2	£ 2,521.00	24	7	8736	12303.32	£ 5,315.03	34%	4183.13	£ 1,807.11	0.88
AHU 6 Extract	1	1.1	0.70	Belts & Pulleys	VO1	1	2.2	£ 2,521.00	24	7	8736	6151.66	£ 2,657.52	42%	2593.20	£ 1,116.16	0.54
AHU 7 Kitchen Supply only	1	2.2	1.41	Belts & Pulleys	VO1	1	2.2	£ 2,521.00	24	7	8736	12303.32	£ 5,315.03	34%	4183.13	£ 1,807.11	0.88
AB AHU Pool Supply	1	11.0	5.67	Belts & Pulleys	VO3H	1	10.5	£ 5,209.00	24	7	8736	49561.98	£ 21,410.77	24%	11894.87	£ 5,138.59	2.50
AB AHU Pool Extract	1	3.0	2.66	Belts & Pulleys	VO2	1	4	£ 3,960.00	24	7	8736	23271.04	£ 10,053.09	24%	5585.05	£ 2,412.74	1.17
AB AHU Ground Floor Supply	1	3.0	2.66	Belts & Pulleys	VO2	1	4	£ 3,960.00	24	7	8736	15087.73	£ 6,906.70	24%	3837.06	£ 1,657.61	0.81
AB AHU Ground Floor Extract	1	0.0	1.18	Belts & Pulleys	VO2	1	4	£ 3,960.00	24	7	8736	10283.08	£ 4,447.22	24%	2467.94	£ 1,066.15	0.52
AB First Floor Supply	1	3.0	2.66	Belts & Pulleys	VO2	1	4	£ 3,960.00	24	7	8736	10966.61	£ 4,738.44	24%	2632.47	£ 1,177.23	0.56
AB AHU Kitchen Supply	1	3.0	2.66	Belts & Pulleys	VO2	1	4	£ 3,960.00	24	7	8736	12853.84	£ 5,552.86	24%	3084.92	£ 1,332.69	0.65
AB AHU Kitchen Extract	1	3.0	2.66	Belts & Pulleys	VO2	1	4	£ 3,960.00	24	7	8736	30849.73	£ 13,325.87	24%	7403.81	£ 3,198.45	1.55
TDS AHU Sports Hall Supply	1	5.5	3.33	Belts & Pulleys	VO3	1	7.5	£ 4,858.00	24	7	8736	25707.60	£ 11,005.72	24%	6190.85	£ 2,695.17	1.30
TDS AHU Sports Hall Extract	1	5.5	3.33	Belts & Pulleys	VO3	1	7.5	£ 4,858.00	24	7	8736	35990.76	£ 15,548.01	35%	12596.77	£ 5,441.80	2.65
TDS AHU Pool Hall Supply convert DD	1	7.5	4.12	Direct Drive	VO3H	1	10.5	£ 12,730.43	24	7	8736						

Energy Price £0.432 / kWh

## Conditions and Assumptions :

This ROI Calculation is Indicative and is valid for a period of 30 Days from  
Pressures and Flow Surveys will need to be completed in the case any Direct Drive Conversion or Fan Array installation  
Quotation includes installation and works taking place within normal working hours (Mon - Fri)

12 August 2023

Project Management		£	7,832.36
Total Price		£	164,479.50
Energy Saving (kWh)			230,397
Carbon Saving (Tonnes)			48.38
Energy Savings		£	99,531.39
ROI (Years)			1.65

	% Payment	Value of Invoice
Payment due upon PO Receipt (30 Days)	40	£ 65,791.80
(Optional) Interim Payment (30 Days)	0	£ -
Balance due upon Completion (30 Days)	60	£ 98,687.70



# WE ALSO NEED YOU TO KNOW

- We have assumed safe working access will be provided at the site and that all works will be carried out during normal working hours unless stated.
- All design liabilities and specification requirements are excluded unless specifically referenced in the above scopes and quote.
- In the event of a unagreed cancellation by the customer we reserve the right to issue a charge to recover costs for materials and / or labour commitments.
- This quotation is only valid for a maximum of 30 days from the proposal date.
- We reserve the right at any time to amend or withdraw this quotation.
- In the event that post order surveys highlight additional costs we will inform the customer and gain agreement before proceeding with the work.
- It is the responsibility of the customer to ensure that the products offered meet the required duty and/or specification.
- Our current lead in time is approximately 6-8 weeks for fan arrays and 2-3 weeks for motor changes.
- VAT charged at the standard rate on all prices.
- Future Motors will invoice 40% of the charges on receipt of purchase order, 40% on delivery of the goods, 15% in accordance with the installation schedule, and 5% at project sign off.
- The Customer shall pay invoices in full and in cleared funds within 30 days of the date of invoice. Payment shall be made to the bank account nominated in writing by the Supplier.
- **Future Motors Terms and Conditions would apply to all orders. These can be found at [www.futuremotors.co.uk/contract](http://www.futuremotors.co.uk/contract)**

# THANK YOU



**Material Impact on  
Energy & Carbon/Fast ROI**



**Fast and Straightforward  
Deployment**



**Intelligence  
and Control**

**We trust our proposal meets with  
your approval and look forward  
to receiving your instruction to  
complete the works. However,  
should you have any queries  
please do not hesitate to contact:**

**[NAME]  
[TITLE]**

**[EMAIL]  
[TELEPHONE NUMBER]**