
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

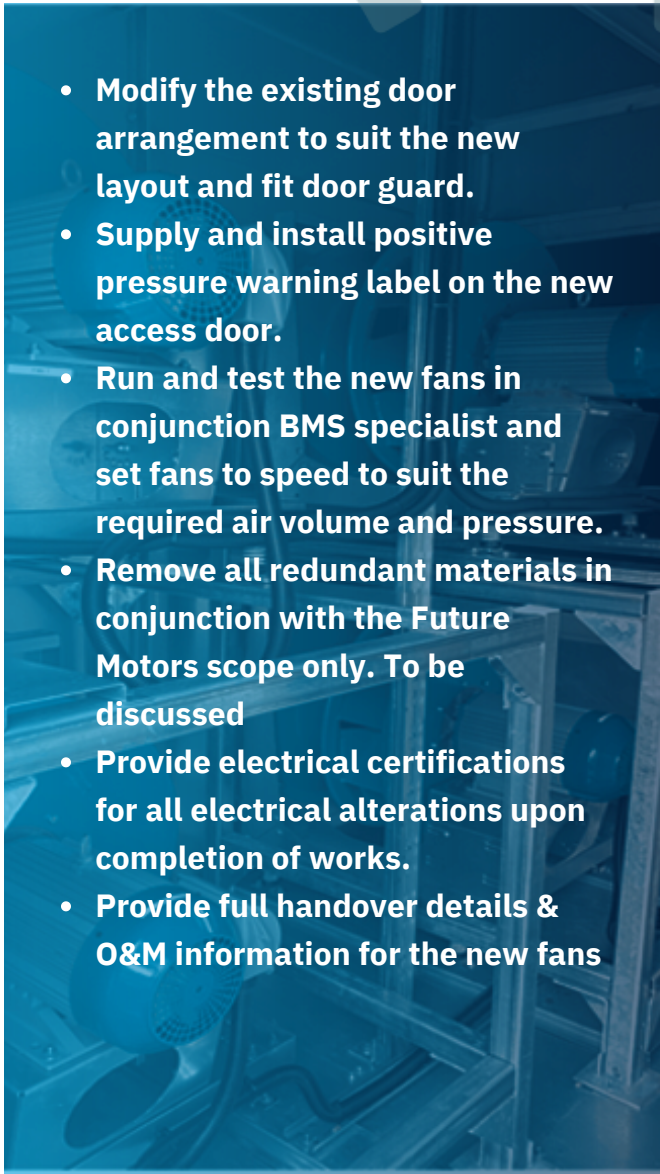
PAYBACK & SAVINGS AT A GLANCE

TOTAL COST	£	**£XXX,XXX.XX**
TOTAL SAVINGS	£	**£XXX,XXX.XX** PER ANNUM
ENERGY REDUCTION	%	**XX%**
CO2 REDUCTION	CO_2	**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).



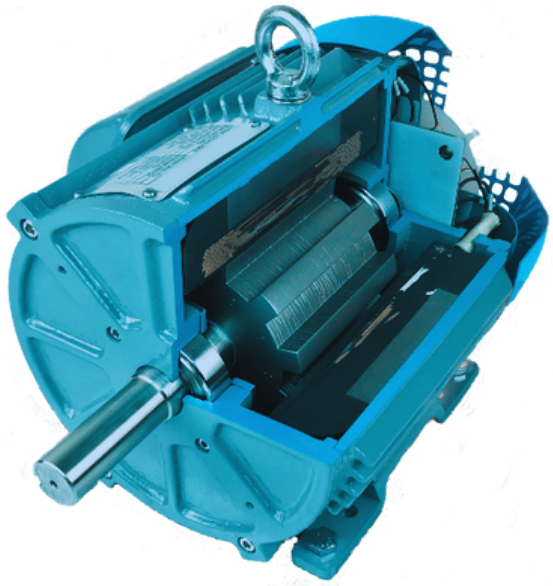
- **Modify the existing door arrangement to suit the new layout and fit door guard.**
- **Supply and install positive pressure warning label on the new access door.**
- **Run and test the new fans in conjunction BMS specialist and set fans to speed to suit the required air volume and pressure.**
- **Remove 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.



PUMP MOTOR CHANGES - OUR SCOPE OF WORKS

- Provide full Method Statement and Risk Assessment prior to commencement of works, detailing all safety controls and step-by-step procedures.
- Conduct a technical site survey, including recording existing total system pressures and flow rates to compare against client-supplied data.
- Confirm all equipment specifications and access requirements in advance.
- Safely isolate the pump system and lock off the electrical supply in accordance with site procedures and relevant safety regulations (LOTO).Ensure signage and physical barriers are in place to prevent unauthorised access to the work area.
- Confirm zero-energy state using appropriate electrical testing equipment.
- Disconnect the existing electrical connections from the single pump motor, ensuring all terminations are safely managed and clearly labelled for future reference.
- Dismantle and remove the existing pump motor and associated mounting arrangements.
- Inspect pump coupling, shaft alignment, and motor mounting base for wear or damage.
- Supply and install the new direct drive motor, along with the appropriate mounting frame or conversion kit if required.
- Ensure precise alignment between the motor and pump to avoid premature wear or vibration.
- Reconnect electrical supply to the new motor, ensuring all connections are in line with manufacturer requirements and site standards.
- Test-run the pump, gradually bringing it up to operational speed while monitoring vibration, noise, and load current.

- **Set pump speed to achieve the specified flow rate and system pressure.**
- **Record and verify final performance data against design parameters and client expectations.**
- **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 disconnection /modification**
- **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 :

Energy Price [redacted] / kWh

AHU Reference	Existing Motor Qty	Existing Motor Size (Kw)	Existing Motor Calculated Duty	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)
AHU 1 Pool Unit Supply	1	15.0	9.68	Fan Array	VO3	2	15	£ [redacted]	24	7	8736	84528.58	£ 36,516.34	32%	27049.14	£ 11,685.23	5.68
AHU 1 Pool Unit Extract	1	11.0	7.04	Fan Array	VO3	2	15	£ [redacted]	24	7	8736	61516.59	£ 26,575.17	32%	19685.31	£ 8,504.05	4.13
AHU 2 Pool Unit Supply	1	15.0	9.60	Belts & Pulleys	VO3H	1	10.5	£ [redacted]	24	7	8736	83886.26	£ 36,238.86	25%	20971.57	£ 9,059.72	4.40
AHU 2 Pool Unit Extract	1	11.0	7.04	Belts & Pulleys	VO3H	1	10.5	£ [redacted]	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	£ [redacted]	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	£ [redacted]	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	£ [redacted]	24	7	8736	41943.13	£ 18,119.43	24%	10066.35	£ 4,348.66	2.11
AHU 4 Café Gym Supply	1	4.0	2.56	Belts & Pulleys	VO3H	1	10.5	£ [redacted]	24	7	8736	22369.67	£ 9,663.70	24%	5368.72	£ 2,319.29	1.13
AHU 5 Change areas Supply	1	7.5	4.80	Belts & Pulleys	VO3H	1	10.5	£ [redacted]	24	7	8736	41943.13	£ 18,119.43	24%	10066.35	£ 4,348.66	2.11
[redacted]																	
AB AHU Ground Flour Supply	1	3.0	2.66	Belts & Pulleys	VO2	1	4	£ [redacted]	24	7	8736	23271.04	£ 10,053.09	24%	5585.05	£ 2,412.74	1.17
AB AHU Ground Flour Extract	1	3.0	1.83	Belts & Pulleys	VO2	1	4	£ [redacted]	24	7	8736	15987.73	£ 6,906.70	24%	3837.06	£ 1,657.61	0.81
AB First Floor Supply	0	0.0	1.18	Belts & Pulleys	VO2	1	4	£ [redacted]	24	7	8736	10283.08	£ 4,442.29	24%	2467.94	£ 1,066.15	0.52
AB First Floor Extract	0	0.0	1.18	Belts & Pulleys	VO2	1	4	£ [redacted]	24	7	8736	10283.08	£ 4,442.29	24%	2467.94	£ 1,066.15	0.52
AB AHU Kichen Supply	1	3.0	1.26	Belts & Pulleys	VO2	1	4	£ [redacted]	24	7	8736	10968.61	£ 4,738.44	24%	2632.47	£ 1,137.23	0.55
AB AHU Kichen Extract	1	3.0	1.47	Belts & Pulleys	VO2	1	4	£ [redacted]	24	7	8736	12853.84	£ 5,552.86	24%	3084.92	£ 1,332.69	0.65
TDG AHU Sports Hall Supply	1	6.5	3.53	Belts & Pulleys	VO3	1	7.5	£ [redacted]	24	7	8736	30849.23	£ 13,326.87	24%	7403.81	£ 3,198.45	1.55
TDG AHU Sports Hall Extract	1	5.5	2.94	Belts & Pulleys	VO3	1	7.5	£ [redacted]	24	7	8736	25707.69	£ 11,105.72	24%	6169.85	£ 2,665.37	1.30
TDG AHU Pool Hall Supply convert DD	1	7.5	4.12	Direct Drive	VO3H	1	10.5	£ [redacted]	24	7	8736	35990.76	£ 15,548.01	35%	12596.77	£ 5,441.80	2.65

SAMPLE

Project Management	£ [redacted]

Total Price	£ [redacted]
Energy Saving (kWh)	[redacted]
Carbon Saving (Tonnes)	[redacted]
Energy Savings	£ [redacted]
ROI (Years)	1.65

	% Payment	Value of Invoice
Payment due upon PO Receipt (30 Days)	40	£ [redacted]
(Optional) Interim Payment (30 Days)	0	£ -
Balance due upon Completion (30 Days)	60	£ [redacted]

Conditions and Assumptions :

This ROI Calculation is Indicative and is valid for a period of 30 Days from 12 August 2023

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)

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**

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]