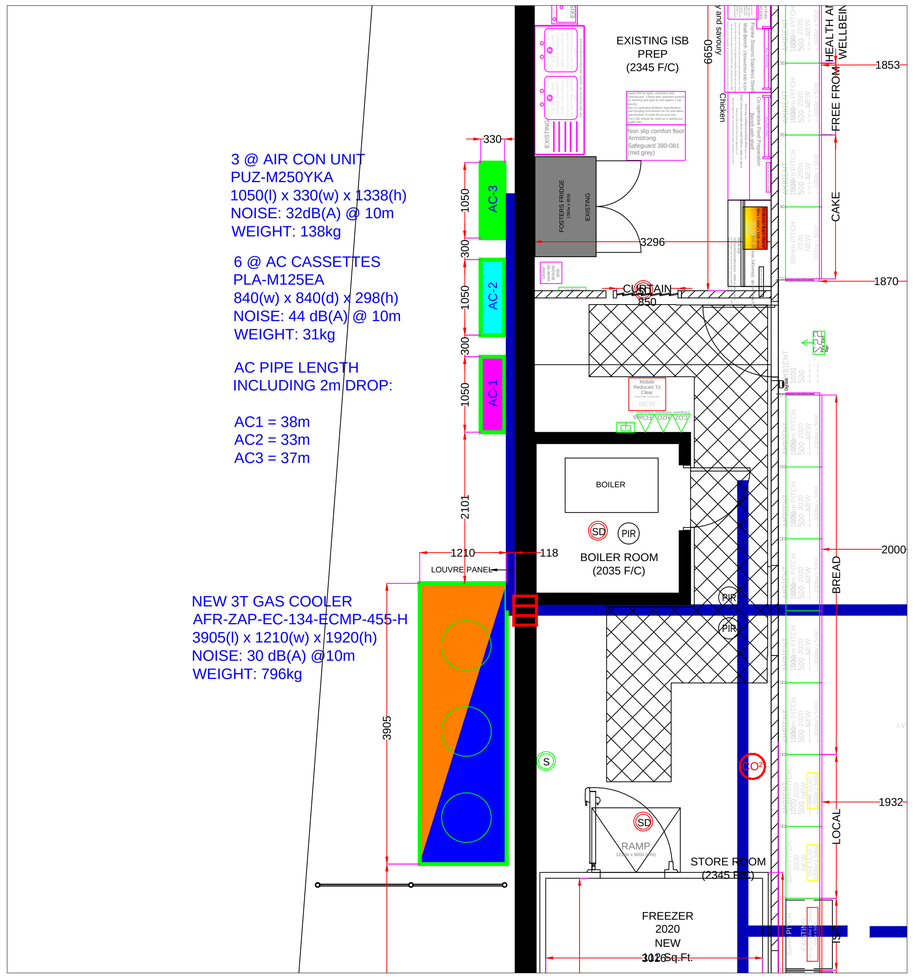
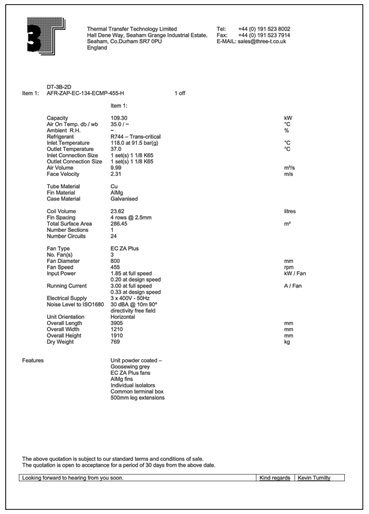


PLANT LAYOUT



Thermal Transfer Technology Limited
Hall Dene Way, Seaham Grange Industrial Estate,
Seaham, Co.Durham SR7 0PU
England

Tel: +44 (0) 191 523 8002
Fax: +44 (0) 191 523 7914
E-MAIL: sales@three-t.co.uk

DT-3B-2D
Item 1: AFR-ZAP-EC-134-ECMP-455-H — 1 off

Item 1:

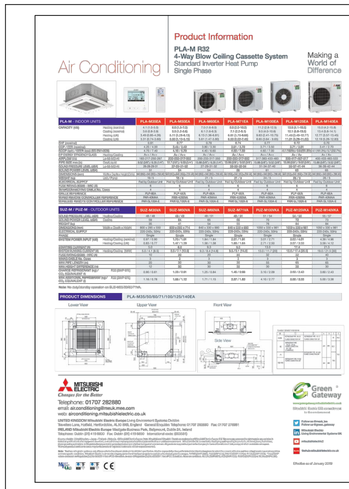
Capacity	109.30	kW
Air On Temp. db / wb	35.0 / -	°C
Ambient R.H.	-	%
Refrigerant	R744 – Trans-critical	
Inlet Temperature	118.0 at 91.5 bar(g)	°C
Outlet Temperature	37.0	°C
Inlet Connection Size	1 set(s) 1 1/8 K65	
Outlet Connection Size	1 set(s) 1 1/8 K65	
Air Volume	9.99	m³/s
Face Velocity	2.31	m/s
Tube Material	Cu	
Fin Material	Alfag	
Case Material	Galvanised	
Coil Volume	23.62	litres
Fin Spacing	4 rows @ 2.5mm	
Total Surface Area	286.45	m²
Number Sections	1	
Number Circuits	24	
Fan Type	EC ZA Plus	
No. Fan(s)	3	
Fan Diameter	800	mm
Fan Speed	455	rpm
Input Power	1.86 at full speed 0.20 at design speed	kW / Fan
Running Current	3.09 at full speed 0.33 at design speed	A / Fan
Electrical Supply	3 x 400V - 50Hz	
Noise Level to ISO1680	30 dBA @ 10m 90° directivity free field	
Unit Orientation	Horizontal	
Overall Length	3905	mm
Overall Width	1210	mm
Overall Height	1910	mm
Dry Weight	769	kg

Features
Unit powder coated –
Goosewing grey
EC ZA Plus fans
Alfag fins
Individual isolators
Common terminal box
500mm leg extensions

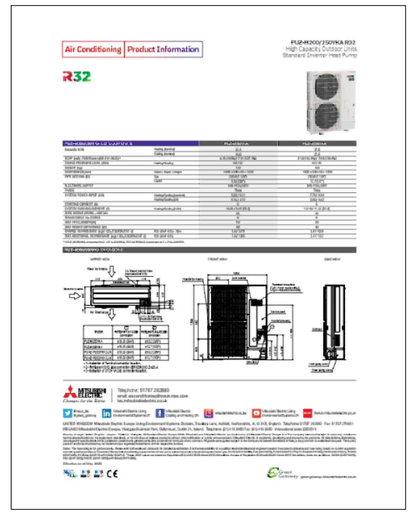
The above quotation is subject to our standard terms and conditions of sale.
The quotation is open to acceptance for a period of 30 days from the above date.

Looking forward to hearing from you soon. | Kind regards | Kevin Tumilty

GAS COOLER & PACK DETAILS



AC DETAILS - PLA M125EA



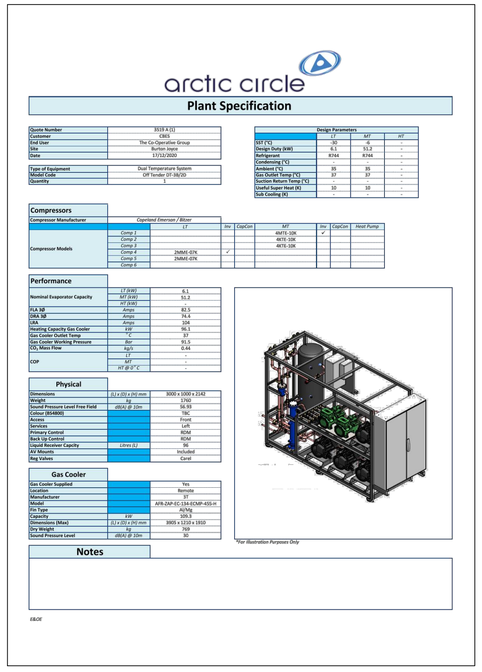
AC DETAILS - PUZ M250YKA

AC WALL MOUNTED PUZ M250YKA

PACK DETAILS																		
PACK REF	NEW / EXISTING	MANUFACTURER	MODEL	REFRIGERANT	TOTAL SYSTEM REFRIGERANT (kg)	RECEIVER VOLUME (lre)	HT / LT CAPACITY Kw @ 7/-30 SST	COMPRESSOR No.	COMPRESSOR MODEL	PACK DESIGN RUN CURRENT (AMPS)	MAX LOAD CURRENT (AMPS)	SUPPLY VOLTAGE	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (kg)	SOUND LEVEL DAY TIME dBA @ 10m	SOUND LEVEL NIGHT TIME dBA @ 10m
DA1	NEW	ARCTIC CIRCLE	DT3B/2D	R744	TBC	96	5.1.2/6.1	3 HT& 2 LT	4MTE-10K & 2MME-07K	74.4	82.5	415	3000	1000	2142	1760	56.93	56.93
GAS COOLER	NEW	3T	AFR-ZAP-EC-134-ECMP-455-H	R744	N/A	N/A	N/A	N/A	N/A	N/A	N/A	415	3905	1210	1920	769	30	30

AIR CONDITIONING DETAILS														
AC REFERENCE	NEW / EXISTING	MANUFACTURER	MODEL	TYPE	REFRIGERANT	DUTY UK HEATING (kW)	DUTY UK COOLING (kW)	MCB RATING (AMPS)	ELECTRICAL SUPPLY	FLA (AMPS)	WEIGHT (kg)	REFRIGERANT CHARGE (kg)	PIPE SIZES (SUCTION / LIQUID)	PIPE LENGTHS (m)	DIMENSIONS (mm) L x W x H	SOUND POWER LEVEL dBA @ 1m
AC-1	N	MITSUBISHI	PUZ-M250YKA	OUTDOOR	R32	27	22	25	415	22.5	138	6.8	1-1/8 & 1/2	TBC	1050 x 330 x 1338	62
AC-1-01	N	MITSUBISHI	PLA-M125EA	INDOOR	R32	11.49	11.01	6	N/A	N/A	31	N/A	5/8 & 3/8	TBC	840 x 840 x 298	44
AC-1-02	N	MITSUBISHI	PLA-M125EA	INDOOR	R32	11.49	11.01	6	N/A	N/A	31	N/A	5/8 & 3/8	TBC	840 x 840 x 298	44
AC-2	N	MITSUBISHI	PUZ-M250YKA	OUTDOOR	R32	27	22	25	415	22.5	138	6.8	1-1/8 & 1/2	TBC	1050 x 330 x 1338	62
AC-2-01	N	MITSUBISHI	PLA-M125EA	INDOOR	R32	11.49	11.01	6	N/A	N/A	31	N/A	5/8 & 3/8	TBC	840 x 840 x 298	44
AC-2-02	N	MITSUBISHI	PLA-M125EA	INDOOR	R32	11.49	11.01	6	N/A	N/A	31	N/A	5/8 & 3/8	TBC	840 x 840 x 298	44
AC-3	N	MITSUBISHI	PUZ-M250YKA	OUTDOOR	R32	27	22	25	415	22.5	138	6.8	1-1/8 & 1/2	TBC	1050 x 330 x 1338	62
AC-3-01	N	MITSUBISHI	PLA-M125EA	INDOOR	R32	11.49	11.01	6	N/A	N/A	31	N/A	5/8 & 3/8	TBC	840 x 840 x 298	44
AC-3-02	N	MITSUBISHI	PLA-M125EA	INDOOR	R32	11.49	11.01	6	N/A	N/A	31	N/A	5/8 & 3/8	TBC	840 x 840 x 298	44

COMPRESSOR SELECTION, PACK, RECEIVER & AIRCON DETAILS



PACK DETAILS - ARCTIC CIRCLE DT3B/2D

ALL DRAWINGS MUST BE CHECKED REGARDING DIMENSIONS & LAYOUT ANY DISCREPANCIES ARE TO BE REPORTED TO THE PROJECT MANAGER FOR REVIEW PRIOR TO COMMENCEMENT OF WORK ON SITE

DO NOT SCALE

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P5F6M0 GOOD FOR P5F8M0

KEY LEGEND:

HT1 · LT1 · DA1
AC1 · AC2 · AC3
COND UNIT TO BE HATCHED (COLOUR SITE SPECIFIC) · INTEGRALS

DISTRIBUTION BOARDS · MERCURY HUB
DRAIN POINTS · HUB
ROOF PENETRATIONS · DATA MANAGER
FLOOR PENETRATIONS · MARK II ORBIT
SERVICE COLUMNS · SOCKET OUTLET
WALL PENETRATIONS · COLDROOM LIGHTS
SUMP PUMP · COLDROOM PANEL
AQUA MAT · Co2 SENSOR & BEACON
AC WALL MOUNTED · RDM PANEL
AC CASSETTE

ROOF LEVEL SERVICE ROUTE
HIGH LEVEL SERVICE ROUTE
LOW LEVEL SERVICE ROUTE
SERVICE DUCT

DESIGN DRAWING TYPE:	
DESIGN DRAWING SIGNED OFF BY:	
AS FITTED DRAWING DATE:	
AS FITTED SIGNED OFF BY:	

REV	DESCRIPTION	DATE
B	LARGER COLDROOM	15-02-21

Drawn By: JH

CBES Ltd
UNIT 1B
LEA GREEN BUSINESS PARK
EUROLINK, St HELENS
WA9 4TR
TELEPHONE: 01744 762 400
FAX: 01744 810 286

SITE:
CO-OP BURTON JOYCE

TITLE:
CR3
PLANT LAYOUT

SCALE:	DATE:
NTS	DEC 2020
DRG SIZE: A1	PROJECT NO: N66862

DRAWING NUMBER: CR3-CBES-BURTON
REV. B