

PRESTIGE AIR TECHNOLOGY LTD
RETROSPECTIVE
LOW ENERGY CLEAN AIR BLANKET
O & M MANUAL
DOCUMENTATION

AT

51 & 53 MARLPOOL DRIVE
REDDITCH
WORC
B97 4RX

FOR

REDDITCH BOROUGH COUNCIL
TOWN HALL
WALTER STRANZ SQUARE
REDDITCH
WORCESTERSHIRE
B98 8AH

REF: 2385

DATE: 31st January 2012.

**RETROSPECTIVE
POSITIVE PRESSURE SYSTEM
INSTALLATION REPORT**

NAME:

ADDRESS:

51 & 53 Marpool Drive
Redditch
Worcs.
B97 4RX

TELEPHONE NO:

.....

INSTALLATION NO:

2385

**INSTALLATION
DESCRIPTION:**

1 No. Positive Pressure Unit

SERIAL NO:

2010037

AS BUILT

METHOD STATEMENT

1. Prior to commencing work building to be entered to check for existing levels of methane and carbon dioxide as per appended Safe Working Protocol. Work to continue when all internal ambient levels at or below 1.0% by volume methane 1.5% carbon dioxide.
2. Methane and carbon dioxide levels to be checked at all perimeter vents. If levels detected are above 1.0% methane v/v and 1.5% carbon dioxide v/v internal monitoring as above must be carried out at the middle and at the end of the working day.
3. 2no. existing external vents to be selected as air input points.
4. Prior to commencing work each input point to be checked for existing levels of methane and carbon dioxide as per appended Safe Working Protocol.
5. Prior to forming shallow excavations services to be traced within work area and their disruption avoided.
6. Immediate work area to be cordoned off with temporary fluorescent barrier. Cordoned area to include any excavations and temporary arisings. Access to work area to be agreed and adhered to at all times.
7. 2no. shallow excavations may need to be formed at the input points immediately adjacent to the property, approx dims to be min 1.5m x 1.0m x 0.5m.
8. 2no. existing 75mm horizontal sub-floor vent pipes to be cleared of any debris and utilised as activation air input points. Camera probe to be utilised to confirm visual viability of input points. Clearance to be carried out manually using hand augers.
9. All gas vents not utilised as air input points to be flow restricted with a coiled section of PAG 6 geocomposite voidformer.
10. Tracer gas introduced to inlet fan and its presence checked for and confirmed at perimeter vents and/or internally around perimeter construction to confirm overall zone of influence of sub-floor area. In the event that the zone of influence cannot be demonstrated from existing vents and or internal monitoring points ground to be excavated externally adjacent to the property to establish zone of influence. In the event that a suitable zone of influence is not achieved subsequent air vents and or a combination of air vents to be selected and checked as suitable air input points to achieve an overall zone of influence.
11. 1no. 110mm outlet PPU to be wall mounted on structure or frame mounted remote from structure and connected to the air input points by a bifocated section of 110mm plastic pressurisation manifold located within ground.

12. Manifold to contain 2no. sub-floor probes connected back to PPU by 8mm probe pipe and to terminate in an externally available sample port. See Prestige Air Drawing No. 5719 AA(57)002. Purpose of probe to be for manifold delivery pressure monitoring. An additional sub-floor probe to be inserted below the structure via another external vent, exact location to be dependent upon local conditions. Purpose of additional probe to be for subsequent ground gas sub-floor monitoring.
13. PPU unit to include 1no. GSM telemetry system to allow for connection to Prestige Air's 24 hour call out and maintenance service.
14. PPU's electricity supply to be connected to 1no. fused spur outlet. Please see attached Wallis's method statement and risk assessments.
15. Where necessary existing external vents to be cleared or blocked off.
16. All excavations to be backfilled and disturbed surfaces reinstated as is reasonably practicable.
17. Internally where possible any major air loss points to be located and sealed, identified by tracer gas being introduced through newly improved vent network. Dependant on size will be sealed with silicone based sealant, close cell foams and or liquid applied membranes.
18. System to be commissioned.
19. Risk assessments 2, 3, 4 and COSHH for sulphur hexafluoride, Safe Working Protocol Entry into a Building and working in shallow excavation for methane and carbon dioxide monitoring to apply.

ZONE OF INFLUENCE RECORD

51 Marpool Drive

Date:10.1.12..... Atm :1014 mb.....

Location	Levels Recorded
Kitchen rear elevation	3
Dining room rear elevation	2
V3	6
V4	80

GAS SAMPLE PORT READINGS 51 Marpool Drive

Period	Location	CH4%v/v	C02%v/v	02%v/v
Initial 10.1.12. 08.00	V1	0.8	0.8	19.3
	V2	5.4	6.4	14.0
	V3	12.2	10.8	11.5
	V4	3.2	2.6	17.6
Commissioning 10.1.12. 11.00	V2	13.5	15.7	4.8
	V3	17.8	16.3	5.2
	V4	10.0	7.5	13.0
13.1.12. 8.00	V2	0.0	1.4	18.2
	V3	3.3	8.1	8.4
	V4	1.0	1.1	18.9
Final Commissioning 31.1.12. 8.00	V3	0.0	0.8	19.1
	V4	0.0	1.3	18.8

GAS SAMPLE PORT READINGS 53 Marpool Drive

Period	Location	CH4%v/v	C02%v/v	O2%v/v
Initial				
10.1.12. 08.00	V1	1.6	1.6	19.0
	V2	12.1	8.3	13.1
	V3	10.6	7.2	12.5
	V4	0.0	0.1	19.9
Commissioning				
10.1.12. 11.00	V2	19.6	16.2	4.5
	V3	21.4	16.8	3.1
	V4	0.0	0.1	20.0
13.1.12. 8.00	V2	0.9	1.3	16.6
	V3	4.6	4.8	14.6
	V4	0.0	0.0	19.6
Final Commissioning				
31.1.12.. 8.00	V3	0.0	1.0	19.4
	V4	0.0	0.1	20.0

FINAL INSPECTION CERTIFICATE

EQUIPMENT DESCRIPTION

1 No. Positive Pressure Unit

SERIAL NUMBER

2010037

INSPECTION DATE

7th October 2011

CHECK		ACCEPTABLE	UNACCEPTABLE	ACTION REQUIRED
1.	Physical state and condition of outer casing	√		
2.	Inclusion of 2 No. keys and correct operation of casing lock	√		
3.	Correct application of valve open/close labels	√		
4.	Correct application of speed control label	√		
5.	Correct application of fan unit label	√		
6.	Swarf removal from base of backplate assembly	√		
7.	Correct formation of backplate and placing of fixing holes	√		
8.	General state and condition of assembly	√		
9.	Disconnection of positive wire from back up battery	√		
10.	Running status by temporarily connecting power to unit with speed controller set on 5 and power supply switch on and Positive Pressure Unit switch on	√		
	a) System Run Light On	√		
	b) Fail 1 light Off	√		

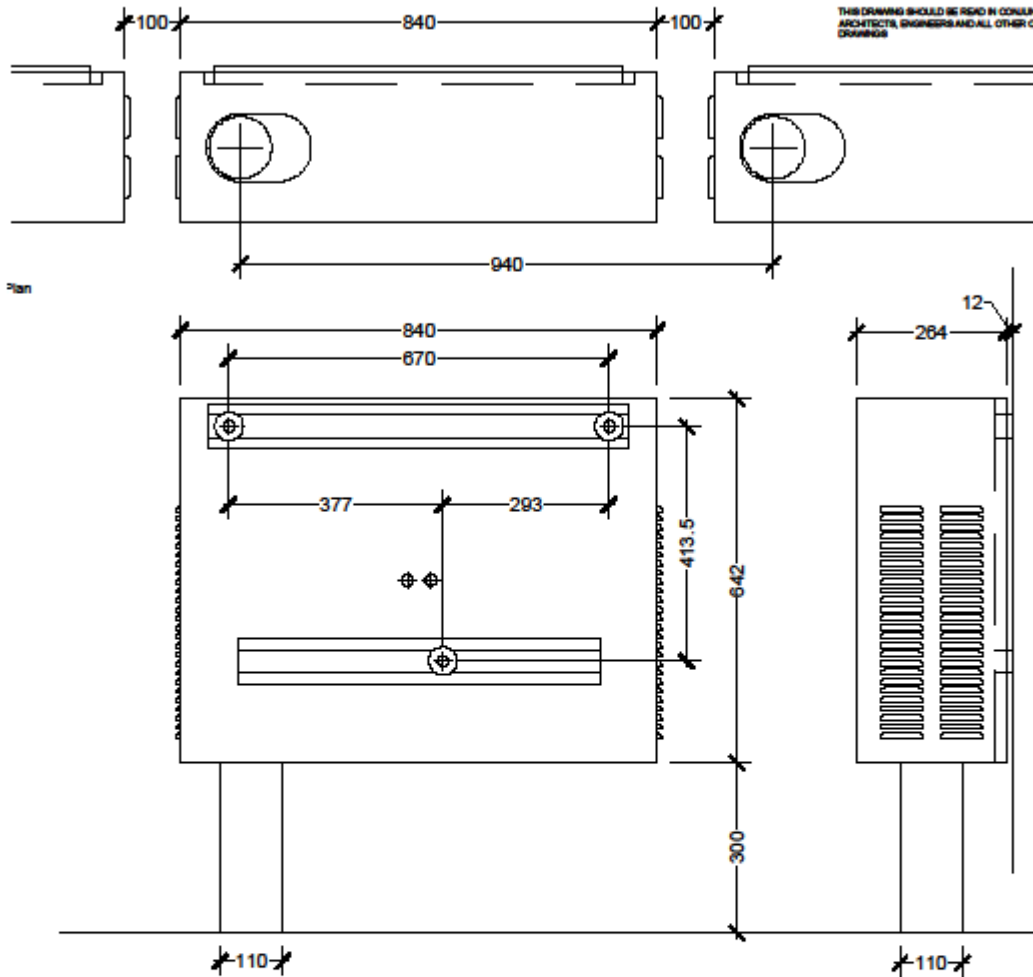
	c) Fail 2 light Off	√		
11.	Running status by temporarily connecting power to unit with speed controller set on 5 and power supply switch off and Positive Pressure Unit switch on	√		
	a) System Run Light Off	√		
	b) Fail 1 light On	√		
	c) Fail 2 light On	√		
12.	Speed controller audibly controlling fan speed	√		

Signed



Print Name Richard Stevens

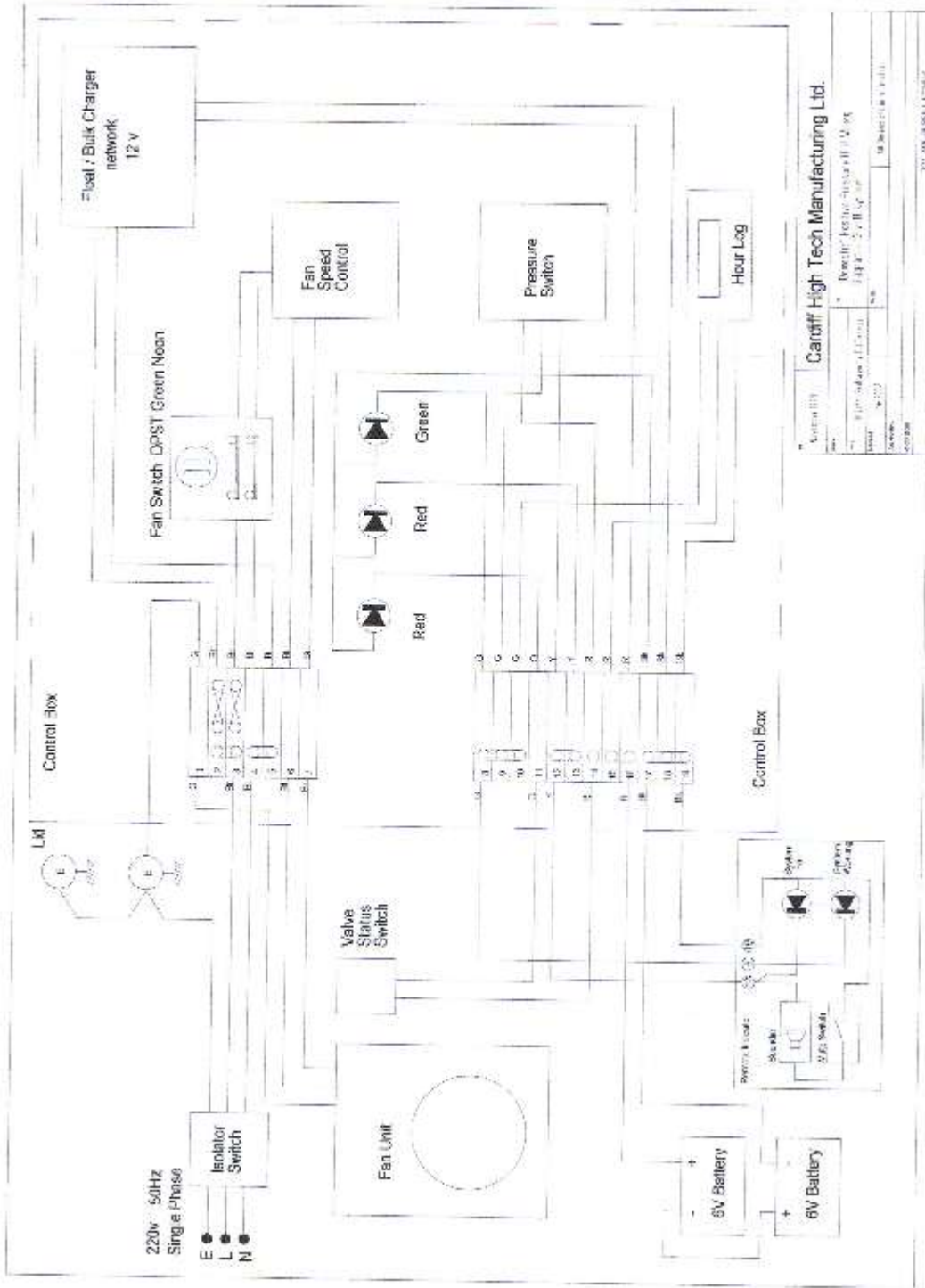
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Rear Elevation

Side Elevation

		Prestige Group, Graham Mackay Group Sales, Cardiff A43rd Sct 105-106, 200 GLEBE ROAD, PLYMOUTH
PRESTIGE AIR TECHNOLOGY		
Standard detail Component Elevations Low energy P.P.U Elevations Prestige Air-Technology Ltd		
DATE October 2001	SCALE 1:10	DRAWN BY JH
For Information		NO
5719 AA(57) 012		P5



Company: **Caraff High Tech Manufacturing Ltd.**
 Address: **North West Industrial Estate, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000**