

# **OPERATION, CLEANING & MAINTENANCE**

# **READ ALL INSTRUCTIONS BEFORE USE**

# Halton Capture Jet 3 – Proprietary Kitchen Ventilation Exhaust Hoods with UV Treatment

#### This manual is suitable for the following models:

UVI	Halton Capture Jet <sup>™</sup> Canopy with UV treatment.
UVF-HI	Halton Capture Jet <sup>™</sup> Heavy duty Island Canopy with UV treatment and provision for Supply Air.
UVF-H	Halton Capture Jet™ Heavy duty Canopy with UV treatment and provision for Supply Air.
UVF-M	Halton Capture Jet™ Canopy with UV treatment and provision for Supply Air.
UVF	Halton Capture Jet™ Canopy with UV treatment and provision for Supply Air.

**UVI-M** Halton Capture Jet<sup>™</sup> Island Canopy with UV treatment









# **1.0 Introduction**

1.2 General Information       .4         1.3 UV - Responsibilities       .5         1.4 UV Warnings       .5         1.4 UV Warnings       .6         1.6 Disposal of the UV Lamps       .6         1.6 Disposal of the UV Lamps       .6         1.7 In Case Of Broken UV Lamp       .6         1.8 Overview       .7         1.9 Section Views       .7         1.9 Section Views       .7         1.9 Section Views       .6         1.0 Capture Jet       .9         1.1 Exhaust Plenum       .9         1.1 Exhaust Plenum       .9         1.2 Supply Plenum (on F models)       .9         2.1 Hood Operation       .10         2.1 Hood Operation       .10         2.2.1 W Console       .10         2.2.2 UV Camps Atarm       .2.3 VU Touch Screen Description         2.3.3 UV Touch Screen Description       .13         2.3.4 UV Touch Screen Description       .13         2.3.5 Filter Sately Atarm       .2.3 Filter Sately Atarm         2.3.6 Signaling The Potential Faults Or Statuses       .2.3 Proteen Sately Atarm         2.3.7 Tubes 1&2.3 &4, 5&6, 7&&8 Atarm       .2.3 Jutardar Cantol Her Atarm         2.3.8 Communication Atarm       .2.3 In Lange Atarm	1.1 Attention				 	 	 		• •	4
1.3 UV - Responsibilities       5         1.4 UV Warnings       6         1.5 Handling of the UV Lamps       6         1.6 Disposal of the UV Lamps       6         1.7 In Case of Broken UV Lamp       6         1.8 Overview       7         1.9 Section Views       7         1.0 Capture Jet       9         1.11 Exhaust Plenum       9         1.2 Supply Plenum (on F models)       9         1.3 Lights       9         2.0 Operation       10         2.1 Initial check       10         2.2 UV Console       10         2.2.1 Milat check       10         2.2.3 Wintenance Alarm       2.2.3 Maintenance Alarm         2.3 UV Touck Screen       13         2.3 UV Touck Screen       13         2.3.1 "UV-C" Main Screen Description       13         2.3.2 Filter Safety Alarm       2.3 Sector Alarm         2.3 Stritter Safety Alarm       2.3 Sector Alarm         2.3.1 Tuber Staz Safety Alarm       2.3 Sector Alarm         2.3.2 Stritter Safety Alarm       2.3 Sector Alarm         2.3 Sector Alarm       2.3 Sector Alarm         2.3 UT touck Screen       17         3.1.1 General Information       3.1.2 Surface Finish / Corrosin Protection	1.2 General Information				 	 	 			4
1.4 UV Warnings       6         1.5 Handling of the UV Lamps       6         1.6 Disposal of the UV Lamps       6         1.7 In Case Of Broken UV Lamp       6         1.8 Overview       7         1.9 Section Views       7         1.9 Section Views       8         1.10 Capture Jet       9         1.11 Exhaust Plenum       9         1.12 Supply Plenum (on F models)       9         1.13 Lights       9         2.1 Hood Operation       10         2.1 Hood Operation       10         2.1 Hood Operation       10         2.2 UV Console       10         2.2.1 UV Console       10         2.2.1 UV Console       10         2.2.1 VU Console       10         2.2.1 VU Console       11         2.3 UV Touch Screen       13         2.3 UV Touch Screen       13         2.3 L Touch Screen       13         2.3 Spanither Potential Faults Or Statuses       2.3 Filter Satety Alarm         2.3 Screens Alarm       2.3 Screens Alarm	1.3 UV - Responsibilities				 	 	 			5
1.5 Handling of the UV Lamps       6         1.6 Disposal of the UV Lamps       6         1.7 In Case Of Broken UV Lamp       6         1.8 Overview       7         1.9 Section Views       7         1.9 Section Views       8         1.0 Capture Jet       9         1.11 Exhaust Plenum       9         1.12 Supply Plenum (on F models)       9         1.13 Lights       9         2.0 Operation       10         2.1 Hood Operation       10         2.2 UV Console       10         2.2.1 Unitial check       2         2.2.2 U Console       10         2.2.3 Maintenance Alarm       2.3 Admittenance Alarm         2.3.4 Urouch Screen       13         2.3.3 TUV-C" Main Screen Description       13         2.3.3 TUV-C" Main Screen Description       13         2.3.4 Fressure Alarm       2.3 France France Alarm         2.3.5 Access Safety Alarm       2.3 Communication Alarm         2.3.6 Access Safety Alarm       2.3 Communication Alarm         2.3.7 Tubes 182, 324, 586, 788 Alarm       2.3 Samulary Controller Alarm         2.3.9 Maintenance Alarm       2.3 Tuber 182, 344, 586, 788 Alarm         2.3.9 Connumication Alarm       2.3 Tubury Charde Finish / Carosian Prota	1.4 UV Warnings				 	 	 			6
1.6 Disposal of the UV Lamps       6         1.7 In Case Of Broken UV Lamp       6         1.8 Overview       7         1.9 Section Views       7         1.9 Section Views       7         9 Section Views       9         1.11 Exhaust Plenum       9         1.12 Supply Plenum (on F models)       9         1.13 Lights       9         2.0 Operation       10         2.1 Hood Operation       10         2.1 Hood Operation       10         2.2.1 Will check       10         2.2.2 UW Console       10         2.2.1 Will check       10         2.2.2 Wu Lamps Alarm       2.2.3 Maintenance Alarm         2.2.3 Maintenance Alarm       2.2.3 Maintenance Alarm         2.3.4 Pressure Alarm       2.3.5 Filter Safety Alarm         2.3.5 Filter Safety Alarm       2.3.5 Filter Safety Alarm         2.3.7 Lawren Environ       13         2.3.8 Communication Alarm       2.3.8 Communication Alarm         2.3.8 Consers Safety Alarm       2.3.7 Filter Safety Alarm         2.3.8 Communication Alarm       2.3.8 Communication Alarm         2.3.9 Lampe Change Alarm       2.3.1 Lawren Filters Alary Alary Alary Alary         2.3.1 Lawren Finish / Corrosion Protection       1.1 Genera	1.5 Handling of the UV Lamps				 	 	 			6
1.7 In Case Of Broken UV Lamp       6         1.8 Overview.       7         1.9 Section Views       8         1.10 Capture Jet       9         1.11 Exhaust Plenum       9         1.12 Supply Plenum (on F models)       9         1.13 Lights       9         2.0 Operation       9         2.1 Hood Operation.       10         2.2.1 Initial check       10         2.2.2 W Console       10         2.2.3 Maintenance Alarm       12         2.2.4 Word Doperation Alarm       13         2.3.5 Unitial check       12         2.3.4 UV Touch Screen       13         2.3.5 UV Touch Screen       13         2.3.7 UV-C' Main Screen Description       23.8 Alarm         2.3.8 Access Satery Alarm       23.8 Access Satery Alarm         2.3.7 UV Touch Screen       14         2.3.8 Communication Alarm       23.8 Controler Alarm         2.3.7 UL ang Change Alarm       23.8 Controler Alarm         2.3.8 Controler Alarm       13         3.1.1 General Information <th>1.6 Disposal of the UV Lamps</th> <th></th> <th></th> <th></th> <th> </th> <th> </th> <th> </th> <th></th> <th></th> <th>6</th>	1.6 Disposal of the UV Lamps				 	 	 			6
1.8 Overview       7         1.9 Section Views       7         1.9 Section Views       8         1.10 Capture Jet       9         1.11 Exhaust Plenum       9         1.12 Supply Plenum (on F models)       9         1.13 Lights       9         2.1 Hood Operation       10         2.1 Hood Operation       10         2.2.1 W Console       10         2.2.2 UV Console       10         2.2.2 UV Lamps Alarm       2.2.3 Miniteanace Alarm         2.2.3 UV Touch Screen       13         2.3.1 VU <sup>+</sup> C <sup>*</sup> Main Screen Description       13         2.3.2 Signalling The Potential Faults Or Statuses       2.3 4 Pressure Alarm         2.3.3 Fitter Safety Alarm       2.3 Fitter Safety Alarm         2.3.7 Diametraken Marm       2.3.1 Auditary Controller Alarm         2.3.8 Communication Alarm       2.3 Fitter Safety Alarm         2.3.7 Diametraken Marm       2.3 To Lamp Change Alarm         2.3.8 Communication Alarm       2.3 Fitter Safety Alarm         2.3.9 Access Safety Alarm       2.3 Fitter Safety Alarm         2.3.1 Auditary Controller Alarm       2.3 Fitter Safety Alarm         2.3.8 Communication Alarm       2.3 Out Care Finish / Corrosion Protection         3.1.2 Surface Finish / Corrosion Protection	1.7 In Case Of Broken UV Lamp				 	 	 			6
1.9 Section Views       8         1.10 Capture Jet       9         1.11 Exhaust Plenum       9         1.12 Supply Plenum (on F models)       9         1.13 Lights       9         2.0 Operation       9         2.1 Hood Operation       10         2.2.1 Initial check       10         2.2.2 Vulamps Atarm       2.2 Wulamps Atarm         2.2.3 Maintenance Atarm       2.2 Wulamps Atarm         2.3.1 "UV-C" Main Screen Description       13         2.3.1 "UV-C" Main Screen Description       13         2.3.5 Filter Safety Atarm       2.3 & Filter Safety Atarm         2.3.6 Safety Atarm       2.3.8 Gommunication Atarm         2.3.8 Communication Atarm       2.3.8 Gommunication Atarm         2.3.8 Just Atarm       2.3.8 Atarm         2.3.9 Maintenance Atarm       2.3.1 Atardian Atarm         2.3.11 Auxiliary Controller Atarm       3.1 Cleaning Atarm         2.3.11 Auxiliary Controller Atarm       13         3.2 Recommended Cleaning And Maintenance       14         3.1 Cleaning And Maintenance Schedu	1.8 Overview				 	 	 			7
1.10 Capture Jet       9         1.11 Exhaust Plenum       9         1.12 Supply Plenum (on F models)       9         1.13 Lights       9         2.0 Operation       9         2.1 Hood Operation       10         2.2 UW Console       10         2.2.1 Will a check       10         2.2.2 UW Lamps Alarm       2.2.2 Will antherance Alarm         2.2.2 VLamps Alarm       2.2.3 Maintenance Alarm         2.2.3 Volume Alarm       2.2.3 Signalling The Potential Faults Or Statuses         2.3.4 Pressure Alarm       2.3.5 Signalling The Potential Faults Or Statuses         2.3.5 Titler Safety Alarm       2.3.6 Cress Safety Alarm         2.3.6 Coress Safety Alarm       2.3.7 Tubes 1& 2.3 & Alarm         2.3.8 Communication Alarm       2.3.1 Auxiliary Controller Alarm         2.3.1 Auxiliary Controller Alarm       17         3.1.1 General Information       17         3.1.1 General Information       17         3.1.1 General Information       19         3.4 Pressure Alarm       20         2.3 Future Filters - Inspect and Maintenance Schedule       18         3.1 Surface Finish / Corrsion Protection       19         3.1 Senset and Maintenance Schedule       19         3.4 Grease Pots – Inspect and Enpty. <th>1.9 Section Views</th> <th></th> <th></th> <th></th> <th> </th> <th> </th> <th> </th> <th></th> <th></th> <th>8</th>	1.9 Section Views				 	 	 			8
1.11 Exhaust Plenum.       9         1.12 Supply Plenum (on F models).       9         1.13 Lights.       9         1.13 Lights.       9         2.0 Operation       10         2.1 Hood Operation       10         2.2 UV Console       10         2.2.1 Initia check       10         2.2.2 W Lamps Alarm       2.2.3 Maintenance Alarm         2.2.3 Maintenance Alarm       2.2.4 Charms Octavation Alarm         2.2.3 UV Touch Screen       13         2.3.1 'UV-C' Main Screen Description       13         2.3.2 Signiling The Potential Faults Or Statuses       2.3.4 Fressure Alarm         2.3.5 Filter Sately Alarm       2.3.5 Access Safely Alarm         2.3.8 Access Safely Alarm       2.3.8 Access Mains         2.3.9 Maintenance Alarm       2.3.1 Uudiary Controller Alarm         2.3.1 Uudiary Controller Alarm       2.3.1 Uudiary Controller Alarm         2.3.1 Laurian Controller Alarm       2.3.1 Uudiary Controller Alarm         2.3.1 Cleaning       17         3.1.1 General Information       17         3.1.2 Cleaning And Maintenance Schedule       18         3.2 Recommended Cleaning And Maintenance Schedule       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Mash	1.10 Capture Jet				 	 	 			9
1.12 Supply Plenum (on F models)       9         1.13 Lights       9         2.0 Operation       9         2.1 Hood Operation       10         2.2 W Console       10         2.2 W Langs Alarm       10         2.2.2 W Langs Alarm       10         2.2.2 W Langs Alarm       12         2.2.4 Worsole       10         2.2.5 Wintenance Alarm       12         2.2.4 Communication Alarm       13         2.3.4 Wintenance Alarm       13         2.3.5 Filter Safety Alarm       13         2.3.6 Filter Safety Alarm       13         2.3.7 Filter Safety Alarm       13         2.3.8 Communication Alarm       2.3.8 Gommunication Alarm         2.3.7 Lines 142, 344, 546, 788 Alarm       2.3.8 Alarm         2.3.8 Communication Alarm       2.3.1 Auxiliary Controller Alarm         2.3.1 Auxiliary Controller Alarm       13         3.1 1 General Information       17         3.1.1 Cleaning and Maintenance Schedule       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Emply       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Wesh Filters - Inspect and Clean       21         3.7 W Tubes	1.11 Exhaust Plenum				 	 	 			9
1.13 Lights       .9         2.0 Operation       10         2.1 Hood Operation       10         2.2 UV Console       10         2.2.1 Initial check       10         2.2.2 UV Lamps Alarm       2.2.3 Maintenance Alarm         2.2.3 Maintenance Alarm       2.2.4 Communication Alarm         2.2.3 UV Touch Screen       13         2.3.1 'UV-C'' Main Screen Description       13         2.3.2 Jognaling The Potential Faults Or Statuses       2.3.4 Pressure Alarm         2.3.5 Filter Safety Alarm       2.3.6 Access Safety Alarm         2.3.6 Communication Alarm       2.3.8 Communication Alarm         2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm       2.3.9 Advintenance Alarm         2.3.1 Auxiliary Controller Alarm       2.3.1 Auxiliary Controller Alarm         2.3.1 Auxiliary Controller Alarm       2.3.1 Auxiliary Controller Alarm         3.1 Cleaning       17         3.1.1 General Information       17         3.1.2 Surface Finish / Corrosion Protection       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Empty       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters – Inspect and Wash       21         3.7 UV Tubes – Inspect and Clean       22	1.12 Supply Plenum (on F models)				 	 	 			9
2.0 Operation       10         2.1 Hood Operation       10         2.2 UV Console       10         2.2.1 Initial check       10         2.2.2 UV Lamps Alarm       10         2.2.3 Maintenance Alarm       10         2.2.4 Communication Alarm       13         2.3 UV Touch Screen       13         2.3 UV Touch Screen       13         2.3 L VTouch Screen       13         2.3 L VTouch Screen       13         2.3 A Pressure Alarm       2.3 Filter Safety Alarm         2.3.5 Filter Safety Alarm       2.3 Safety Alarm         2.3.7 Tubes 1&2, 354, 5&6, 7&8 Alarm       2.3 Filter Safety Alarm         2.3.8 Communication Alarm       2.3 Communication Alarm         2.3.9 Maintenance Alarm       2.3 Tubes 1&2, 354, 5&6, 7&8 Alarm         2.3.10 Lamp Change Alarm       2.3 Tubes 1&2, 354, 5&6, 7&8 Alarm         2.3.11 Auxiliary Controller Alarm       13         2.3.11 Auxiliary Controller Alarm       11         3.1.2 Surface Finish / Corrosion Protection       11         3.2 Recommended Cleaning And Maintenance Schedule       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Wash       20         3.6 Mesh Filters – Inspect and Wash       20	1.13 Lights				 	 	 			9
2.0 Operation       10         2.1 Hood Operation       10         2.2 W Console       10         2.2.1 Initial check       10         2.2.2 W Lamps Alarm       2.2.3 Maintenance Alarm         2.2.4 Communication Alarm       13         2.3.1 "UV-C" Main Screen Description       13         2.3.1 "UV-C" Main Screen Description       13         2.3.2 Signalling The Potential Faults Or Statuses       2.3.4 Pressure Alarm         2.3.5 Filter Safety Alarm       2.3.6 Access Safety Alarm         2.3.7 Tubes 182, 384, 586, 788 Alarm       2.3.8 Gommunication Alarm         2.3.9 Maintenance Alarm       2.3.1 Auxiliary Controller Alarm         2.3.1 Law Diage Alarm       2.3.1 Law Diage Alarm         2.3.1 Law Diage Alarm       17         3.1.1 General Information       17         3.1.2 Surface Finish / Corrosion Protection       18         3.2 Recommended Cleaning And Maintenance Schedule       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Wash       20         3.6 Wash Titlers – Inspect and Wash       21         3.7 UV Tubes - Inspect and Clean       21         3.8 Exhaust Plenum – Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22										
2.1 Hood Operation.       10         2.2 UV Console.       10         2.2.1 Initial check       10         2.2.2 UV Lamps Alarm       2.2.3 Waintenance Alarm         2.2.4 Communication Alarm       2.2.4 Communication Alarm         2.3 UV Touch Screen       13         2.3.1 "UV-C" Main Screen Description       13         2.3.2 Signalling The Potential Faults Or Statuses       2.3.4 Pressure Alarm         2.3.5 Filter Safety Alarm       2.3.6 Access Safety Alarm         2.3.7 Tubes 182, 384, 586, 788 Alarm       2.3.9 Maintenance Alarm         2.3.9 Maintenance Alarm       2.3.1 duviliary Controller Alarm         2.3.10 Lamp Change Alarm       2.3.11 Auxiliary Controller Alarm         3.3.1 Cleaning and Maintenance       17         3.1.1 General Information       17         3.1.2 Surface Finish / Corrosion Protection       18         3.2 Recommended Cleaning And Maintenance Schedule       18         3.4 Grease Pots – Inspect and Empty.       19         3.6 KSA Cyclonic Filters – Inspect and Wash       20         3.7 UV Tubes - Inspect and Clean       21         3.8 Exhaust Plenum – Inspect and Clean       22         3.10 Duvtovrok Surfaces – Isopect and Clean       22         3.12 Suppet Plenum – Inspect and Clean       22	2.0 Operation									10
2.2.1 Initial check       10         2.2.2 UV Lamps Alarm       2.2.2 UV Lamps Alarm         2.2.3 Maintenance Alarm       2.2.3 Maintenance Alarm         2.3.1 "UV-C" Main Screen Description       13         2.3.2 Signalling The Potential Faults Or Statuses       13         2.3.4 Pressure Alarm       2.3.5 Filter Safety Alarm         2.3.5 Filter Safety Alarm       2.3.6 Access Safety Alarm         2.3.6 Communication Alarm       2.3.7 Tubes 182, 384, 586, 788 Alarm         2.3.7 Tubes 182, 384, 586, 788 Alarm       2.3.8 Communication Alarm         2.3.9 Maintenance Alarm       2.3.1 Auxiliary Controller Alarm         3.3.0 Cleaning and Maintenance       17         3.1.1 General Information       17         3.1.2 Surface Finish / Corrosion Protection       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Empty.       19         3.6 KSA Cyclonic Filters – Inspect and Wash       20         3.7 UV Tubes - Inspect and Clean       21         3.7 UV tubes - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 Uvorkovs Kuráces – Inspect and Clean       22         3.1 UV Tubes - Inspect and Clean       22         3.1 O Uvorkovs Kurácese – Inspect and Clean       22	2.1 Hood Uperation.				 	 	 		• • •	10
2.2.1 Initial check         2.2.2 W Lamps Alarm         2.2.3 Maintenance Alarm         2.2.4 Communication Alarm         2.3 UV Touch Screen         2.3.1 "UV-C" Main Screen Description         2.3.2 Signalling The Potential Faults Or Statuses         2.3.4 Pressure Alarm         2.3.5 Filter Safety Alarm         2.3.6 Access Safety Alarm         2.3.7 Tubes 182, 384, 586, 788 Alarm         2.3.8 Oromnunication Alarm         2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm         2.3.11 Auxiliary Controller Alarm         2.3.12 Surface Finish / Corrosion Protection         3.1 Cleaning       17         3.1.1 General Information         3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule         3.3 Exposed Hood Surface         19         3.4 Grease Pots – Inspect and Empty.         3.5 KSA Cyclonic Filters – Inspect and Wash         3.6 Mesh Filters – Inspect and Clean         2.1         3.2         3.3         2.4         3.5         3.6         3.7         3.8         3.9	2.2 UV Console				 	 	 		• • •	10
2.2.2 DV Lamps Maint         2.2.4 Maintenance Alarm         2.2.4 Communication Alarm         2.3.1 "UV-C" Main Screen Description         2.3.2 Signalling The Potential Faults Or Statuses         2.3.4 Pressure Alarm         2.3.5 Fitter Safety Alarm         2.3.6 Access Safety Alarm         2.3.6 Access Safety Alarm         2.3.7 Tubes 182, 384, 586, 788 Alarm         2.3.8 Communication Alarm         2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm         3.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm         3.1.1 General Information         3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule         3.3 Exposed Hood Surface         19         3.4 Grease Pots – Inspect and Empty.         19         3.4 Grease Pots – Inspect and Wash         3.7 UV Tubes - Inspect and Clean         21         32.9 Supply Plenum – Inspect and Clean         22         3.10 Uvork Surfaces - Inspect and Clean         22         3.1 Suppet and Clean         22         3.2 Recommended Clean (Clean         22         <	2.2.1 INITIAI CNECK									
2.2.3 Womentation Alarm         2.3 UV Touch Screen       13         2.3.1 "UV-C" Main Screen Description       13         2.3.2 Signalling The Potential Faults Or Statuses       2.3.4 Pressure Alarm         2.3.5 Filter Safety Alarm       2.3.5 Filter Safety Alarm         2.3.7 Tubes 182, 384, 586, 788 Alarm       2.3.6 Access Safety Alarm         2.3.8 Communication Alarm       2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm       2.3.10 Lamp Change Alarm         2.3.10 Lamp Change Alarm       2.3.11 Auxiliary Controller Alarm         3.1 Cleaning       17         3.1.1 General Information       17         3.1.2 Surface Finish / Corrosion Protection       18         3.2 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Empty       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters - Inspect and Clean       21         3.7 UV Tubes - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean       22	2.2.2 UV Lamps Alarm									
2.3 UV Touch Screen       13         2.3.1 "UV-C" Main Screen Description       13         2.3.2 Signalling The Potential Faults Or Statuses       2.3.4 Pressure Alarm         2.3.5 Filter Safety Alarm       2.3.5 Filter Safety Alarm         2.3.6 Access Safety Alarm       2.3.5 Filter Safety Alarm         2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm       2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm         2.3.8 Communication Alarm       2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm       2.3.11 Auxiliary Controller Alarm         3.3.0 Leaning and Maintenance       17         3.1.1 General Information       17         3.1.2 Surface Finish / Corrosion Protection       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Empty.       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters - Inspect and Clean       21         3.7 UV Tubes - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 Urubers - Inspect and Clean       22         3.10 Urubers - Inspect and Clean       22         3.11 Auxiliary Clean (Clean       22         3.12 Surface Planem – Inspect and Clean       21         3.7 UV Tubes - Inspect and Clean       22	2.2.3 Walliteliance Alarm									
2.3.1 "UV-C" Main Screen Description         2.3.2 Signalling The Potential Faults Or Statuses         2.3.4 Pressure Alarm         2.3.5 Filter Safety Alarm         2.3.6 Access Safety Alarm         2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm         2.3.8 Communication Alarm         2.3.9 Maintenance Alarm         2.3.1 Lamp Change Alarm         2.3.1 Lamp Change Alarm         2.3.1 Lamp Change Alarm         2.3.1 Leaning         2.3.1 Leaning         3.1 Cleaning         3.1.1 General Information         3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule         3.3 Exposed Hood Surface         19         3.4 Grease Pots – Inspect and Empty.         3.5 KSA Cyclonic Filters – Inspect and Wash         20         3.6 Mesh Filters - Inspect and Clean         21         3.7 UV Tubes - Inspect and Clean         22         3.9 Supply Plenum – Inspect and Clean         23         3.10 Uvtowers Kurfaces - Inspect and Clean         22         3.10 Uvtowers Kurfaces - Inspect and Clean         23         3.10 Uvtowers Kurfaces - Inspect and Clean         22         3.10 Ductwor	2.2.4 Communication Alarm 2.3 UV Touch Screen									13
2.3.2 Signalling The Potential Faults Or Statuses         2.3.4 Pressure Alarm         2.3.5 Filter Safety Alarm         2.3.5 Filter Safety Alarm         2.3.6 Access Safety Alarm         2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm         2.3.8 Communication Alarm         2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm         2.3.11 Auxiliary Controller Alarm         3.11 Gleaning         3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule         3.3 Exposed Hood Surface         9.3.4 Grease Pots – Inspect and Empty.         19         3.5 KSA Cyclonic Filters – Inspect and Wash         2.0         3.6 Mesh Filters - Inspect and Clean         3.7 UV Tubes - Inspect and Clean         3.7 UV Tubes - Inspect and Clean         3.7 UV Tubes - Inspect and Clean         2.9 Supply Plenum – Inspect and Clean         2.3.10 Ductwork Surfaces - Inspect and Clean         2.3.2 Ductwork Surfaces - Inspect and Clean         2.3.3 Dupt Plenum – Inspect and Clean         2.3.10 Ductwork Surfaces - Inspect and Clean	2.3 1 "IIV-C" Main Screen Description				 	 	 	• • •	• • •	10
2.3.4 Pressure Alarm         2.3.5 Filter Safety Alarm         2.3.5 Filter Safety Alarm         2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm         2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm         2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm         2.3.9 Maintenance Alarm         2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm         3.3.11 Auxiliary Controller Alarm         3.11 Cleaning       17         3.1.1 General Information       17         3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Empty.       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters - Inspect and Quash       21         3.7 UV Tubes - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 UV twork Surfaces - Inspect and Clean       22         3.10 UDuctwork Surfaces - Inspect and Clean       22	2.3.2 Signalling The Potential Faults Or St	atuses								
2.3.5 Filter Safety Alarm         2.3.6 Access Safety Alarm         2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm         2.3.8 Communication Alarm         2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm         3.3.11 Auxiliary Controller Alarm         3.1 Cleaning         3.1 Cleaning         3.1.1 General Information         3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule         3.3 Exposed Hood Surface         19         3.4 Grease Pots – Inspect and Empty.         19         3.6 Mesh Filters - Inspect and Wash         21         3.7 UV Tubes - Inspect and Clean         22         3.9 Supply Plenum – Inspect and Clean         23         3.0 Ductwork Surfaces – Inspect and Clean         22         3.10 Ductwork Surfaces – Inspect and Clean         22	2.3.4 Pressure Alarm									
2.3.6 Access Safety Alarm         2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm         2.3.8 Communication Alarm         2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm         3.0 Cleaning and Maintenance         3.1 Cleaning	2.3.5 Filter Safety Alarm									
2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm         2.3.8 Communication Alarm         2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm         3.0 Cleaning and Maintenance         3.1 Cleaning         3.1 General Information         3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule         3.3 Exposed Hood Surface         19         3.4 Grease Pots – Inspect and Empty         19         3.5 KSA Cyclonic Filters – Inspect and Wash         20         3.6 Mesh Filters – Inspect and Wash         21         3.7 UV Tubes - Inspect and Clean         21         3.8 Exhaust Plenum – Inspect and Clean         22         3.10 Uptwork Surfaces – Inspect and Clean         22         3.10 Uptwork Surfaces – Inspect and Clean         22         3.10 Ductwork Surfaces – Inspect and Clean         22	2.3.6 Access Safety Alarm									
2.3.8 Communication Alarm         2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm <b>3.0 Cleaning and Maintenance</b> 3.1 Cleaning	2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm									
2.3.9 Maintenance Alarm         2.3.10 Lamp Change Alarm         2.3.11 Auxiliary Controller Alarm <b>3.0 Cleaning and Maintenance</b> 3.1 Cleaning .         3.1 Cleaning .         3.1.1 General Information         3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule         3.3 Exposed Hood Surface .         3.4 Grease Pots – Inspect and Empty.         3.5 KSA Cyclonic Filters – Inspect and Wash         3.7 UV Tubes - Inspect and Wash         3.7 UV Tubes - Inspect and Clean.         21         3.8 Exhaust Plenum - Inspect and Clean         22         3.9 Supply Plenum – Inspect and Clean         22         3.10 Ductwork Surfaces - Inspect and Clean	2.3.8 Communication Alarm									
<ul> <li>2.3.10 Lamp Change Alarm</li> <li>2.3.11 Auxiliary Controller Alarm</li> <li>3.0 Cleaning and Maintenance</li> <li>3.1 Cleaning</li></ul>	2.3.9 Maintenance Alarm									
2.3.11 Auxiliary Controller Alarm <b>3.0 Cleaning and Maintenance</b> 3.1 Cleaning	2.3.10 Lamp Change Alarm									
<b>3.0 Cleaning and Maintenance</b> 17         3.1 Cleaning	2.3.11 Auxiliary Controller Alarm									
3.1 Cleaning       17         3.1.1 General Information       3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Empty.       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters - Inspect and Wash       21         3.7 UV Tubes - Inspect and Clean       21         3.8 Exhaust Plenum - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)       22	3.0 Cleaning and Maintenance	е								
3.1.1 General Information         3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Empty       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters - Inspect and Wash       21         3.7 UV Tubes - Inspect and Clean       21         3.8 Exhaust Plenum - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)       22	3.1 Cleaning				 	 	 			17
3.1.2 Surface Finish / Corrosion Protection         3.2 Recommended Cleaning And Maintenance Schedule       18         3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Empty       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters - Inspect and Wash       21         3.7 UV Tubes - Inspect and Clean       21         3.8 Exhaust Plenum - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)       22	3.1.1 General Information									
3.2 Recommended Cleaning And Maintenance Schedule183.3 Exposed Hood Surface193.4 Grease Pots – Inspect and Empty193.5 KSA Cyclonic Filters – Inspect and Wash203.6 Mesh Filters - Inspect and Wash213.7 UV Tubes - Inspect and Clean213.8 Exhaust Plenum - Inspect and Clean223.9 Supply Plenum – Inspect and Clean223.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)22	3.1.2 Surface Finish / Corrosion Protectior	1								
3.3 Exposed Hood Surface       19         3.4 Grease Pots – Inspect and Empty.       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters - Inspect and Wash       21         3.7 UV Tubes - Inspect and Clean.       21         3.8 Exhaust Plenum - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)       22	3.2 Recommended Cleaning And Mainten	ance Schedule	)		 	 	 			18
3.4 Grease Pots – Inspect and Empty.       19         3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters - Inspect and Wash       21         3.7 UV Tubes - Inspect and Clean       21         3.8 Exhaust Plenum - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)       22	3.3 Exposed Hood Surface				 	 	 			19
3.5 KSA Cyclonic Filters – Inspect and Wash       20         3.6 Mesh Filters - Inspect and Wash       21         3.7 UV Tubes - Inspect and Clean       21         3.8 Exhaust Plenum - Inspect and Clean       22         3.9 Supply Plenum – Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)       22	3.4 Grease Pots – Inspect and Empty				 	 	 			19
3.6 Mesh Filters - Inspect and Wash       21         3.7 UV Tubes - Inspect and Clean       21         3.8 Exhaust Plenum - Inspect and Clean       22         3.9 Supply Plenum - Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)       22	3.5 KSA Cyclonic Filters – Inspect and Wa	sh			 	 	 			20
3.7 UV Tubes - Inspect and Clean.       21         3.8 Exhaust Plenum - Inspect and Clean       22         3.9 Supply Plenum - Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor).       22	3.6 Mesh Filters - Inspect and Wash				 	 	 			21
3.8 Exhaust Plenum - Inspect and Clean       22         3.9 Supply Plenum - Inspect and Clean       22         3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)       22	3.7 UV Tubes - Inspect and Clean.				 	 	 			21
3.9 Supply Plenum – Inspect and Clean	3.8 Exhaust Plenum - Inspect and Clean				 	 	 			22
3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)	3.9 Supply Plenum – Inspect and Clean				 	 	 			22
	3.10 Ductwork Surfaces - Inspect and Cle	an (by Service	Contracto	r)	 	 	 			22





# 4.0 Maintenance and Service

4.1 Maintenance
4.2 Fluorescent and LED tubes
4.3 Down Lights:
4.4 Removal of the UV Cassettes from the Exhaust Hood:
4.5 Replacing UV Tubes
4.6 Replace a UV Ballast
4.7 Service the Capture Jet Fan
4.5 Testing and Balancing Pressure and Airflow - Exhaust Air Flow
4.6 Testing and Balancing Pressure and Airflow - Supply Air Flow
4.7 Troubleshooting
4.8 Pressure Drop And Sound Data
4.9 Spare Parts
4.9.1 SPEH-HAL-UVI-UVF
4.9.2 SPEH-HAL-0066
4.9.3 Hood Light Options





#### **1.1 Attention**

Carefully read this instruction booklet, as it contains important advice for safe installation, operation and maintenance. This manual is to be passed onto the owner/facility at the project completion.



The manufacturer cannot be held responsible or liable for any **unauthorized modifications** or repairs. All modifications or repairs must be approved by the manufacturer in writing before initiating. All modifications or repairs performed to this unit **must** be performed at all times by a **trained and authorised specialist**.

# **1.2 General Information**

When using any electrical unit, safety precautions must always be observed.

Our units have been designed for high performance.

Read these instructions carefully and retain for future reference.

- All units MUST be installed according to the procedures stated in the installation section of this manual
- In the case of new personnel, training is to be provided before operating the equipment
- DO NOT use this unit for any other purpose than its intended use
- Keep fingers out of "pinch point" areas
- Only use this unit with voltage specified on the rating label
- Threaded fasteners can loosen in service. Regular inspection and tightening should be carried out as required
- If any fault is detected, refer to the troubleshooting guide



Due to continuous product research and development, the information contained herein is subject to change without notice.



# 1.3 UV - Responsibilities



The UV-C radiation emitted from the UV cassettes affects the hydrocarbon components of human flesh and eyes.

WARNING

Halton UV exhaust products have built-in engineering controls to protect operators from accidental exposure to radiation. These include:

- A pressure switch to only operate UV lamps when the exhaust fan is running;
- A filter safety switch to turn UV lamps off when a filter is removed;
- An access safety switch to turn UV lamps off when any UV doors or access panels are removed;
- UV power interlock to only supply power to the UV system when the exhaust fan is turned on (this is the responsibility of the installer)

Halton's UV-C lamps have an operating lifetime of 13,000 hours and the tubes are safely fitted in IP rated cassettes that can be easily removed for periodic maintenance away from the food preparation area. A simple user interface communicates the status of the UV including power supply, maintenance and communication alarms.

It is the responsibility of any employer to bring the risks and associated safety measures to the attention of their employees. This includes developing a safety plan in the event UV exposure does occur. Any safety plan should include first aid treatment and seeking further medical attention. Regular training should also be conducted on the safe operation of the UV system. When installing, operating or servicing Halton UV products:

Always contact Stoddart's service team to discuss any problems with the UV system

- Do not attempt to disable or bypass the UV engineering controls;
- Do not attempt to operate the UV-C lights whilst they are exposed;
- If UV lights do operate while exposed;
- Do not look at operating UV-C lights
- · Cover skin and eyes to avoid prolonged exposure to UV light
- Isolate the power, fit the filters and access panels and call Stoddart for technical support
- Dispose of used UV tubes responsibly;

Should any complications arise that cannot be solved using this manual, contact Stoddart for further advice.

Each UV system is designed and considered separately, based on the information provided to Stoddart. Stoddart cannot be held responsible if the design of the HVAC installation has been modified so that the efficiency of the UV system or concentration at the discharge point is impaired. Residual ozone generated by the Halton UV system may be present in the extract air prior to discharge to the atmosphere. AS 1668.2-2012, Table C1 and the NEPC provide guidelines on the maximum exposure limit of ozone.





# 1.4 UV Warnings



# WARNING

The UV-C radiation emitted from the UV cassettes affects the hydrocarbon components of human flesh and eyes.

The UV-C lamps used for Halton's Capture Ray<sup>™</sup> technology contain a very small quantity of mercury. Classification in accordance with directives 67/548/EEC, 2001/59/EC and 2006/102/EC:



T+: Very toxic

N: Substances or preparations that are dangerous for the environment

#### 1.5 Handling of the UV Lamps

The UV lamps are manufactured using quartz glass (fragile).

Care MUST be taken when carrying out routine maintenance and/or UV lamp replacement.

Cleaning and maintenance of the UV lamps and Filters should only be performed by trained personnel, in accordance with the operating instructions.

#### 1.6 Disposal of the UV Lamps

UV lamps for disposal (defective or lamps that have exceeded their lifetime) MUST be handled carefully, D0 NOT break the quartz tubes. They UV lamps MUST be disposed of in accordance with local regulations.

#### 1.7 In Case Of Broken UV Lamp

Immediately wash your hands, arms and any other body parts which have been in contact with the tube splinters. Slip on protective clothing (at least protection gloves if, contrary maintenance instructions, they were not used during the tube replacement). Carefully collect the tube pieces while trying to limit air drafts which can whip up the dust. Place them in hermetic packaging and dispose as hazardous waste. Any broken tube must be disposed of the same way as intact tubes (see above). The quantity of mercury used in the UV-C lamps is very small. However, if you feel unwell, seek medical advice immediately.



Due to continuous product research and development, the information contained herein is subject to change without notice.



#### **1.8 Overview**

Example only. Exhaust hood configuration may vary due to customer specifications



Due to continuous product research and development, the information contained herein is subject to change without notice.





# **1.9 Section Views**

UVI: No provision for make-up air supply through hood.

**UVF:** Provision for make-up air supply through front perforated face of the hood.



**UVI-H:** Wall position No provision for make-up air supply through hood.

**UVF-H:** Wall Position with provision for make-up air supply through front perforated face of the hood.

**UVI-HI:** Island Position No provision for make-up air supply through hood.

**UVF-HI:** Island Position with provision for make-up air supply through front & rear perforated faces of the hood.

**UVI-M:** Island Position No provision for make-up air supply through hood.

**UVF-M:** Island Position with provision for make-up air supply through front & rear perforated faces of the hood.



Lamp Box Exhaust Air Exhaust Air Slide Damper Slide Damper ÷ ÷ 4 Capture Jet Fan (Not Supply Air) Mesh Filte KSA Filte Drain Tap Grease Pot Capture Jet





Due to continuous product research and development, the information contained herein is subject to change without notice.



## 1.10 Capture Jet

• Halton Capture Jet Hoods have a row of horizontal and vertical jet holes along the front and open sides of the canopy. The capture jets produce controlled air curtains that capture and spiral the air toward the filters, improving capture. The air is drawn into the Capture Jet by special fans and speed controllers in the hood

#### 1.11 Exhaust Plenum

- KSA cyclonic particulate separation filters are the 1st level of exhaust air treatment
- UV Mesh screens equalize the airflow through the UV chamber for optimum UV exposure
- UV Cassette with UV lamp tubes generate Ozone in the exhaust air to react with vapours
- Exhaust Air Slide Damper is adjusted during commissioning only to balance air between multiple hood sections
- T.A.B. points allow easy periodic checking of exhaust suction pressure



## 1.12 Supply Plenum (on F models)

- Perferated front face panels allows laminar flow of make-up air into the kitchen
- Supply air damper is adjusted during commissioning only to balance air between multiple hood sections.
- Comfort Nozzles allow some of the supply air to be directed down onto the chef to provide them with a more comfortable work environment
- Make up air supplied at low level velocity through the face of the canopy improve capture and containment by a further 10%

## 1.13 Lights

• The light box is mounted in the flat top section of the exhaust hood. A hinged glass door provides access to the lights **Optional:** Down lights (LED or halogen) are fitted into stainless steel spring loaded fittings







Due to continuous product research and development, the information contained herein is subject to change without notice



# 2.1 Hood Operation

Kitchen exhaust hoods are part of a complete kitchen exhaust system that includes exhaust fans, controllers (switches, VSD and or BMS), exhaust ducts and possibly secondary filtration systems. The make-up air supply system (mechanical or natural ventilation) is also an integral part of the exhaust system.

To operate the hood specifically:

- Turn on the room lights. The lights in the hood are normally switched on together with the room lighting
- Check all filters are positioned correctly in the hood. Filter position may affect airflow through the hood
- Turn on the Kitchen exhaust fan so that it draws the required airflow through the exhaust hood. (The exhaust fan may have a manual switch or be BMS or timer controlled)
- If the exhaust fan is controlled by a 2 speed switch, operate the fan in low only during preparation. Operate in high speed for all cooking activity (label the switch "Preparation" and "Cooking")
- Check the UV lights switch on automatically when the exhaust fan is on and there is adequate airflow through the hood. The LEDs on the UV console or UV Touch screen indicate power and operation of the system

# 2.2 UV Console

#### 2.2.1 Initial check

The console manages up to 12 UV Racks (or canopy sections). The console is mounted in the front face of one of the canopies it controls and normally sits within the front facing lower mullion. By pressing push buttons, users can see the status of the canopy.

- When the console is in this mode, the power LED is constantly on.
  - 1. Check if power is on (it may be interlocked to the exhaust fan)
  - 2. Check if there are any warnings
  - 3. Resolve warning if possible
  - 4. If warning is not resolved, contact Stoddart

Note: If hood is connected to a touch screen, it won't have a UV console. Refer to the Halton touch screen manual.



- 1. Power indicator light
- 2. Individual UV section numbers
- 3. (PB1) UV lamps/ballast alarm and push button
- 4. (PB2) Alarm and push button (filter safety/air flow/UV door)
- 5. (PB3) Communication alarm and push button
- 6. Default warning lights
- 7. Not used



Due to continuous product research and development, the information contained herein is subject to change without notice.



#### 2.2.2 UV Lamps Alarm

UV lamp alarm is displayed above the push button 1 (PB1). This alarm is triggered if;

- The total running hours exceed 13,000 hr service life of UV lamps;
- There is no feedback from the ballast when the lamp is turned on (cable malfunction, lamp or ballast failure).

Hold in PB1 for 4 seconds. The left side of the console will show lights to indicate the cause of the alarm. The first, 2-second blink indicates the ballast rack. The second, 1- second blink indicates the ballast number in the rack.

In the examples shown, there is a problem with ballast 3 in ballast rack 1.

Each Ballast controls two UV lamps. Inspect the two tubes and the ballast for cause of alarm.

#### 1 Halton 8 9 3 10 11 PWR 🔵 12 2 2 sec Halton 8 2 9 3 10 11 PWR 🔵 12 4 sec 3 1 sec Halton 9 10 PWR ● 12 4 sec

#### 2.2.3 Maintenance Alarm

Maintenance alarm is displayed above the push button 2 (PB2). When this alarm activates the UV lamps are automatically turned off for safety reasons

To check the cause of the alarm, press and hold PB2 for 4 seconds. The left side of the console will indicate which ballast rack is throwing the error. The number/length of blinks specify the cause of the alarm according to:

- 1 long blink low pressure alarm
   the pressure currently being detected is lower than minimum allowed pressure
- **2 short blinks** door safety switch alarm - the access hatch is open or not correctly closed
- 3 short blinks filter safety switch alarm
   one or more filters are removed or not inserted correctly





Due to continuous product research and development, the information contained herein is subject to change without notice.



#### 2.2.4 Communication Alarm

Communication alarm is displayed above the push button 3 (PB3). This alarm is triggered if there is no feedback from a controller. Possible reasons are:

- Cable problem
- Faulty controller
- Programming fault

Hold in PB3 (4 seconds) to display the number of the UV cassette where the problem is.

• **1 long blink** - Position 10, indicating no communication with UV cassette No.10





Due to continuous product research and development, the information contained herein is subject to change without notice.



#### 2.3 UV Touch Screen

Some businesses use a wall mounted touch screen to manage the UV operation of multiple hoods in a kitchen. The touch screen might also manage other elements of the ventilation system such as secondary filtration systems, exhaust fans and M.A.R.V.E.L. demand-based controllers. Touch screen operating instructions are provided separately with a quick overview provided on the following pages



#### 2.3.1 "UV-C" Main Screen Description





Due to continuous product research and development, the information contained herein is subject to change without notice.





#### 2.3.2 Signalling The Potential Faults Or Statuses



#### 2.3.4 Pressure Alarm

The pressure, that is currently measured inside the UV-C section, is lower than the minimum allowed. All the lamps of the UV-C section are then automatically turned off for safety reasons. The "Pressure Alarm" dot turns to orange (not critical alarm).

Note that all the UV racks may systematically trigger the same alarm. Note also that this alarm can correspond to a normal situation. The allowed pressure can be indeed set to switch off automatically the lamps under a predefined value of exhaust airflow to extend their lifetime.



#### 2.3.5 Filter Safety Alarm

One or several filter(s) are missing at exhaust plenum level. All lamps of the UV-C section are then automatically turned off for safety reasons. The "Filter Safety" dot turns to red. Depending on the number of missing filters and the corresponding pressure decrease, the "Pressure Alarm" dot may turn to orange at the same time.

Note: If all filters are missing, the pressure decrease generated may trigger the Pressure alarm of other hood sections.

#### 2.3.6 Access Safety Alarm

The access door to the UV rack is open. All lamps of the UV-C section are then automatically turned off for safety reasons. The "Access Safety" and the "Pressure Alarm" dots turn red

Note: The pressure decrease generated may trigger the Pressure alarm of other hood sections.







Due to continuous product research and development, the information contained herein is subject to change without notice.



#### 2.3.7 Tubes 1&2, 3&4, 5&6, 7&8 Alarm

This alarm can be triggered by 2 events:

- If the total running hours exceeds the defined lifetime of the UV lamps (normally 13000 hours);
- If there is no feedback from the ballast when the lamps are turned on (possible reasons: cable malfunction, lamps or ballast failure).

Note: If one or several UV lamps have to be replaced, the run hours counter must be reset. Please refer to the corresponding chapter.

#### << 1 Actual exhaust 130 m3/h 5 Pa (2) Filter Safety (3) Access Safety 4 Tubes 1 & 2 5 Tubes 3 & 4 6 Tubes 5 & 6 7 Tubes 7 & 8 UV Tubes 1 & 2 Run Hours: 13502 UV Tubes 3 & 4 Run Hours: 13502 UV Tubes 5 & 6 Run Hours: 13502 UV Tubes 7 & 8 Run Hours: Halton « Back

#### 2.3.8 Communication Alarm

This alarm is triggered when there is a problem on the communication network of the UV system (between the controllers that make up the system).

The most frequent reason to get this alarm is a damaged communication cable or a defective controller.

Note: When a communication cable is damaged all hood sections located downward in the communication network will also trigger the alarm.



#### 2.3.9 Maintenance Alarm

This alarm is triggered when the lamps need to be cleaned depending on the number of operating hours defined in the "UV-Light Options" menu (administrator mode).

Note: Once maintenance is completed, click on the red button to make alarm disappear.

#### << 1 Actual exhaus 1 Pressure Alarm 130 m3/h (2) Filter Safety 5 Pa (3) Access Safety (4) Tubes 1 & 2 (5) Tubes 3 & 4 (6) Tubes 5 & 6 (7) Tubes 7 & 8 UV Tubes 1 & 2 Run Hours: 2000 UV Tubes 3 & 4 Run Hours: 2000 Maintenance UV Tubes 5 & 6 Run Hours: UV Tubes 7 & 8 Run Hours 2000h

« Back

#### 2.3.10 Lamp Change Alarm

This alarm is triggered when the lamps have to be replaced after having been used longer than the lifetime defined in the "UV-Light Options" menu (administrator mode).

Note: Once maintenance is completed, click on the red button to make alarm disappear.

Note: The lifetime of the UV lamps is 13000h.





Halton

Due to continuous product research and development, the information contained herein is subject to change without notice



#### 2.3.11 Auxiliary Controller Alarm

For interconnections with other systems (whether they are from Halton or not) or communication with the BMS (Building Management System), the UV system can be equipped with an "Auxiliary Controller". This controller relays exactly the same alarms as described before. If one or several of these alarms occur the "Auxiliary Controller" triggers an additional and general warning message on the main screen and hood sections screens as shown.

Note: When the UV system is combined with M.A.R.V.E.L. technology, the warning message may be also displayed in case of fault on one of the two systems.



<< 1 2	3	4	5	6	7	8	>>
Actual exhaust						1 Press	ure Alarm
130 m3/h 5 Pa	a constant					2 Filter	Safety
			5 7			3 Acces	s Safety
		4				4 Tubes	1 & 2
						6 Tubes	3 & 4
						6 Tubes	5 & 6
UV system safety fault.			1			7 Tubes	7 & 8
isolate system and call		UV Tubes	1 & 2 Rur	Hours:	13502h		
Halton for service!		UV Tubes	3 & 4 Rur	Hours:	13502h		
		UV Tubes	5 & 6 Rur	Hours:	13502h		
		UV Tubes	7 & 8 Rur	Hours:	13502h		
« Back						Ha	lton



Due to continuous product research and development, the information contained herein is subject to change without notice.



# 3.1 Cleaning

#### 3.1.1 General Information

- · Threaded fasteners can loosen in service. Regular inspection and adjustment should be carried out as required
- Cleaning is recommended for health and safety purposes and to prolong the life of the unit
- · Do not use abrasive pads or cleaners on the stainless steel or any other metal parts of the unit
- Do not use industrial chemical cleaners, caustic based cleaners or bleaches and bleaching agents, many will damage the metals and plastics used on this unit
- When drying, metal surfaces should be wiped with a soft cloth in the same direction as grained polish
- Do not remove any screws for general cleaning. All internal sections of the unit are to be cleaned by a qualified technician
- This unit is not waterproof, do not hose, do not pour water directly onto the unit, do not immerse in water

#### 3.1.2 Surface Finish / Corrosion Protection

- 1. Stainless steel exhibits good resistance to corrosion however, if not properly maintained stainless steel can rust and/or corrode
- 2. All metal surfaces should be checked while cleaning for damage, scuffs or scrapes as these can lead to rust and further damage to the product
- 3. Any sign of mild rust and/or corrosion should be thoroughly cleaned with warm soapy water and dried as soon as possible
- 4. Mild rust, discolouration and/or corrosion can be treated with a commercial cleaning agent that contains citric/oxalic/nitric/phosphoric acid. Do not use cleaning agents with chlorides or other harsh chemicals as this can cause corrosion. After treatment, wash with warm (not hot) soapy water and dry thoroughly
- 5. Some commercial stainless steel cleaners can leave residue or film on the metal. Make sure any residue is washed off with a clean damp cloth
- 6. Wipe the surfaces dry (in the same direction as grained polish) after cleaning and do not let water pool on the unit
- 7. For non-food contact surfaces, a light oil can be wiped on the surfaces with a cloth to enhance the stainless steel surface. Wipe in the direction of the grain



# IMPORTANT

Threaded fasteners can loosen in service. Regular inspection and adjustment should be carried out as required



# WARNING

This unit is NOT waterproof, do NOT hose. DO NOT pour water directly onto the unit. DO NOT immerse in water



## IMPORTANT

Some commercial stainless steel cleaners leave residue or film on the metal that may entrap fine particles of food, deeming the surface not FOOD SAFE.



## WARNING

Wait until the unit has cooled to a safe temperature before undertaking any cleaning or maintenance. Contact with hot surfaces can cause burns and serious injury.







# 3.2 Recommended Cleaning And Maintenance Schedule

For good kitchen hygiene, the exhaust hood should be visually inspected by management at least once per week. The below 'Cleaning and Maintenance Schedule' can also be found attached on the inside of the exhaust hood. These provide a cleaning guide for Extreme, Heavy and Light duty operation. Regular tasks for the operator include cleaning the hood's surfaces, emptying the grease pots and washing the filters. Additionally, a service technician is required to periodically perform routine maintenance tasks.

This schedule is only a guide. The frequency of cleaning will depend on the type and duration of cooking as well as the product and cooking oils used.

Legend:

- X extreme usage
- H heavy usage
- L light usage

Item	6-12 Hours	Daily	Weekly	2 Weeks	1 Month	3 Months	6 Months	12 Months
Check Indicator Lights Match Operation	Х	Н	L					
3.3 Clean Exposed Hood Surfaces	Х	Н	L					
3.4 Grease Pots - Inspect and Empty	Х	Н	L					
3.5 KSA Cyclonic Filters – Inspect and Wash		Х	Н	L				
3.6 UV Mesh Filter - Inspect and Wash		Х	Н	L				
3.7 UV Tubes - Inspect and Wash		Х	Н	L				
Replace UV tubes	13,000 hours (approx. 2-3 years usage)							
3.8 Exhaust Plenum - Inspect and Clean					Х	Н	L	
3.9 Supply Plenum – Inspect and Clean					Х	Н	L	
3.10 Ductwork Surfaces - Inspect and Clean						Х	Н	L
** Inspect And Service Exhaust And Supply Fans						Х	Н	L
Check Exhaust Hood Airflow Balance						Х	Н	L
Clean And Service Capture Jet Fans								X, H, L
Test Emergency Stop Button								X, H, L

\*\* Refer to Fan Supplier's manual.



Due to continuous product research and development, the information contained herein is subject to change without notice.

# 3.3 Exposed Hood Surface

Check all metal surfaces to ensure that there is no accumulation of grease or dirt and that there is no surface damage that could harbour dirt and bacteria. Clean exposed interior and exterior surfaces of hood and light fixture with mild soapy water or a neutral product. Carefully rinse away all surplus cleaning product.

Cleaning Task	Cleaning Agent	Comments
Poutino cloaning	Lice mild detorgent and warm water	Use a sponge or clean cloth, rinse with clean water, wipe
noutine cleaning		dry if necessary
Oil or Crosso	Use cleanser or organic solvents	Apply cleanser to a damp cloth or sponge and rub cleanser
UII UI UIEdse	(e.g. acetone, alcohol or methylated spirits)	on the metal
		Use rag or fibre brush (soft nylon or natural bristle) or
Stubborn stains, soil	Mild cleaning solutions (e.g. specialty	scotch-brite <sup>™</sup> scouring pads. Do not use steel wool.
and burnt deposits	stainless steel cleaners)	Rub in the direction of the grain and polish lines. Rinse well
		with clean water and wipe dry

# 3.4 Grease Pots – Inspect and Empty

- 1. Regularly check grease collection pots as they collect the oil separated from the exhaust air
- 2. To remove the pot from the hood, lift and slide the pot forward out of its holder (carefully if it is full and hot)
- 3. Empty the oil into a waste oil container for recycling
- 4. Wash the pot with hot soapy water before re-fitting it to the hood
- 5. Replace the pot immediately as oil will continue to drip from the drain Note: for hoods that have a drain tap instead of a grease pot, hold a bucket under the drain and turn the tap to release collected oil









# 3.5 KSA Cyclonic Filters – Inspect and Wash

- 1. Switch off the exhaust fan
- 2. Remove the blanking panels
- 3. Take note of filter positions (to ensure any blind panels are positioned in same location)
- 4. Remove each KSA filter from the hood
- 5. Wash particulate off the filter in the pot sink with detergent, using spray-rinse and a brush or cloth
- 6. Place filters in a dishwasher basket, and pass through the dishwasher
- 7. Dry the filters & re-fit into the hood
- 8. Make sure the filters are properly located with both top and bottom hanging rails in place. (If there is a Filter to fan interlock, the fan will not restart when a filter is removed or not positioned properly)





Due to continuous product research and development, the information contained herein is subject to change without notice.



#### 3.6 Mesh Filters - Inspect and Wash

- 1. Inspect the UV mesh (equaliser) filters & wash if dirty. (this is typically done weekly)
- 2. To remove UV filters, lift and pull them out bottom first.
- 3. Wash particulate off the filter in the pot sink with detergent, using spray-rinse and a brush
- 4. Put the UV filter in a dishwasher basket (5 per basket) and pass through the dishwasher
- 5. Dry the filters & re-fit them into the hood
- 6. If only the front face is slightly greasy, the filter can be rotated so greasy side faces UV light



## 3.7 UV Tubes - Inspect and Clean



The UV-C lamps are made of quartz glass and are fragile. Care must be taken when cleaning the lamps, and all appropriate safety equipment utilised. Broken glass can cause injury and contaminate the food preparation area. Remove the UV rack from the hood for washing and servicing the tubes

- 1. Inspect the UV tubes either when the mesh filters are being inspected and washed or by access through the UV access door (this is typically done weekly)
- 2. If white dust forms on the surface of the UV tubes, it should be gently wiped off using a soft damp cloth to maintain effective operation (can be done without removing the UV rack)
- 3. If the tubes look or feel greasy, remove the UV rack from the hood (see instructions on page 26) and place it on a safe table (away from food preparation area). Wipe the tubes using a mild detergent and then wash off any residue







# 3.8 Exhaust Plenum - Inspect and Clean

The exhaust ductwork has to be periodically inspected and cleaned by the Service Contractor, the exhaust plenum should be also be thoroughly cleaned at the same time.

When the filters are removed, inspect the inside of the exhaust plenum. Condensed oil vapour should flow to the base and drain to the grease pots. Particulate and insects, etc. may accumulate inside the hood and cause ponding. Wipe the inside of the exhaust plenum using old rags.

# 3.9 Supply Plenum – Inspect and Clean

UV hoods with supply air passing through a perforated front panel should be inspected periodically and wiped clean as required. The front panel can be removed by removing the comfort nozzles, undoing the screws and lifting the panel out.





## 3.10 Ductwork Surfaces - Inspect and Clean (by Service Contractor)

The recommended inspection periods for extract ductwork, as published in \*HVAC TR/19 by Airah – "Guide to good practice. Internal Cleanliness of ventilation systems", are as follows:

- Heavy use (12-16 hours/day) inspect every 3 months
- Moderate use (6-12 hours/day) inspect every 6 months
- Light use (<6 hours/day) inspect every 12 months

Ductwork cleaning is usually done by specialist cleaning contractors. TR/19 suggests that the duct is cleaned based on the grease depth in the duct, according to the following:

- Duct considered clean grease depth <= 0.05mm
- Duct considered acceptable grease < 2mm
- Duct should be scheduled for cleaning grease depth > 2mm
- Duct should be cleaned immediately grease depth > 3mm

Failure to implement a cleaning maintenance procedure will cause an accumulation of grease and dirt in the ventilation system which will promote the growth of harmful bacteria, increase the risk of fire, generate odours, reduce airflow through the kitchen and impair the overall system performance and efficiency. Cleaning frequency may be a condition of insurance policies – check your policy. For the efficient operation of a kitchen ventilation system, implement cleaning & maintenance procedures. For detailed requirements refer to the HVAC publication TR/19. Chemical safety procedures should be noted prior to use. If a cleaner containing chlorides, bleaches or hypochlorite's is used it must be, afterwards, promptly and thoroughly cleaned off.

\* HVAC TR/19 by Airah: https://www.airah.org.au/Content Files/Resources/Technical-Bulletin-Kitchen-Exhaust.pdf



Due to continuous product research and development, the information contained herein is subject to change without notice.



#### 4.1 Maintenance

- The auto wash process requires regular inspection. Detergent and water usage may require adjustment based on site demands
- The process of handling and washing filters can result in them being bent. Check filters for damage to ensure they can be easily refitted.
- Fluorescent or LED lights in the exhaust hood have a limited service life & require periodic replacement by an authorised technician
- The Capture Jet fan requires annual service & cleaning by an authorised technician
- Airflow checks should be done annually and after service work by measuring the TAB pressure to confirm the exhaust airflow is within specification and ensure ongoing performance

# 4.2 Fluorescent and LED tubes



Fluorescent lights are housed within the light fixture to provide sufficient light to the work area underneath the hood. The lights may be florescent tubes, LED tubes, halogen down lights or LED down lights. Before replacing any lights ensure power to the hood is switched off.

- 1. Unlatch the light diffuser panel and swing it downwards
- 2. Rotate the tube to release it from the tombstone ends and remove it
- 3. Replace the tube with a tube of the same size and wattage









#### 4.3 Down Lights:



1. Pull the down light down and out of the hood, this can be difficult. There are two spring clamps holding the lamp in. You may need to pry the light off the surface of the hood and use a screwdriver (or similar) to hold the clamps back. If it is possible, reach on top of the hood and hold the clamps back





2. Disconnect the light and replace it with a new one





Due to continuous product research and development, the information contained herein is subject to change without notice.



3. If replacing the light doesn't fix the problem, the driver needs to be replaced by a qualified electrician, service technician or similarly qualified persons. The driver is attached with Velcro next to the light opening with enough cable to pull it through the hole



4. To replace the driver, pull it through the hole, undo the connections and replace it with a new one



5. Re-fit all lights and drivers as they were before. Ensure the driver is connected to the hood with Velcro again (reuse the Velcro from the old driver if need be)





# 4.4 Removal of the UV Cassettes from the Exhaust Hood:

- 1. Unlatch the UV access doors and open
- 2. Unplug the UV power cables at each end of the UV cassette frame (a quarter turn Bayonet style fitting)





3. Lift and slide the UV cassette out of the hood and place the UV Cassette on a safe work surface away from the food preparation for cleaning or service work. (hold the handle – approximate Cassette weight is 5kg)



- 4. To refit the UV cassette, insert the cassette into the hood, carefully re-attach the UV power cables and lock them with a quarter turn.
- 5. Close and latch the UV access doors

## 4.5 Replacing UV Tubes

If the UV tubes have become significantly stained or have exceeded their maximum operating hours they will need to be replaced by a qualified technician. Do not attempt to service a UV system yourself. Contact the Stoddart service department.

#### 4.6 Replace a UV Ballast

UV ballasts need occasional service by a qualified technician. Do not attempt to service a UV system yourself. Contact the Stoddart service department.

## 4.7 Service the Capture Jet Fan

Every 6 months (typically) the Capture Jet fan will need to be serviced by a qualified technician. Contact the Stoddart service department.



Due to continuous product research and development, the information contained herein is subject to change without notice.



#### 4.5 Testing and Balancing Pressure and Airflow - Exhaust Air Flow

Every 6 months (typically) the Capture Jet fan will need to be serviced by a qualified technician. Contact Stoddart at 1300 307 289 for assistance.

Before measuring airflows check the exhaust and supply fan are on and functioning normally. Airflows are balanced in each hood section by adjusting the sliding dampers. It is important for the hood to have a balanced airflow, to ensure exhaust and supply function efficiently.

1. Using a manometer measure the pressure at the T.A.B. (Testing and Balancing) point. Do this for each exhaust plenum.



- Compare results to the rating plate. Values must be within ±10% of specified value. If the value is correct, skip to the next section. If the value is incorrect, continue with the following steps.
- 3. Remove the filters to open or close the sliding dampers to increase/decrease pressure as required. Loosen the screw (A), then slide the damper (B) as required.



- 4. When the damper is in the final position re-fit the filters
- 5. Re-measure the pressure at the T.A.B point, if required continue adjusting the dampers and taking measurements until the specified values are reached

Due to continuous product research and development, the information contained herein is subject to change without notice.



# 4.6 Testing and Balancing Pressure and Airflow - Supply Air Flow

Every 6 months (typically) the Capture Jet fan will need to be serviced by a qualified technician. Contact Stoddart at 1300 307 289 for assistance.

There are two components to the supply air, the T.A.B. pressure point and front face air speed. Note that not every model has a perforated front panel for supply air and only KWF models require a supply duct to be connected. Other models have an optional supply duct connection. Before measuring airflows check the exhaust and supply fan on and functioning normally. Airflows must be balanced for each damper in each hood section. It is important for the hood to have a balanced airflow, to ensure exhaust and supply function efficiently.

Using a manometer measure the pressure at the T.A.B. (Testing and Balancing) point. For hood models with a perforated front panel, use a vane manometer to measure the face air velocity at 50mm from the front panel. The air speed must be less than 0.6m/s. Do this for each supply plenum.

Compare results to the rating plate. Values must be within  $\pm 10\%$  of specified value and the air velocity must be less than 0.6m/s. If the values are incorrect, adjust the airflows as per below.

- 1. To adjust to supply dampers (each supply collar has its own adjustable damper), first remove the comfort nozzles
- 2. Locate the spring inside the supply plenum
- 3. Twist the spring to increase (anticlockwise) or decrease (clockwise) the pressure as required
- 4. The bolt on the axle may need to be loosened before the damper can be adjusted
- 5. Feed the spring back inside the supply plenum
- 6. Re-fit the comfort nozzles when done

Halto















Due to continuous product research and development, the information contained herein is subject to change without notice.





#### 4.7 Troubleshooting

- · If any faults/issues occur with the unit, follow the below troubleshooting procedures
- If the troubleshooting procedures do not correct the problem, contact the Stoddart Service Department

Problem / Alarm Indication	Possible Cause(s)	Corrective Action(s)
UV - First alarm indicator on Bluetooth console is illuminated	<ul> <li>The total running hours has exceeded the lifetime of the UV lamps</li> <li>A lamp or ballast has broken or failed</li> <li>Fault with communication cable</li> <li>UV controller is faulty</li> <li>Console is faulty</li> </ul>	<ul> <li>Have a technician replace the UV tubes</li> <li>Check for faults with the communication cable and replace as required</li> <li>3. Check UV tubes for any failures</li> <li>If problem persists, contact Stoddart</li> </ul>
UV - Second alarm indicator on Bluetooth console is illuminated	<ul> <li>The pressure currently being detected is lower than the minimum allowed pressure</li> <li>The access hatch is open or not correctly closed</li> <li>A filter has been removed or is not inserted correctly</li> <li>Reed switches are faulty</li> <li>UV controller is faulty</li> <li>Console is faulty</li> <li>Pressure switch needs calibrating</li> </ul>	<ul> <li>Check the fan is running</li> <li>Check the ductwork is properly sealed</li> <li>Check that the access hatch is properly closed</li> <li>Check that all filters are in place</li> <li>Check the KSA and mesh filters for any build-up and clean as required</li> <li>If problem persists, contact Stoddart</li> </ul>
UV - Third alarm indicator on Bluetooth console is illuminated	<ul> <li>Communication cables unplugged</li> <li>Fault with communication cable</li> <li>UV controller is faulty</li> <li>Console is faulty</li> </ul>	<ul> <li>Check all connections between the console and UV controllers</li> <li>Check for faults with the communication cable and replace as required</li> <li>If problem persists, contact Stoddart</li> </ul>
Cooking fumes are not being removed from the Kitchen	<ul> <li>Exhaust fan not operating correctly</li> <li>Capture Jet fan not operating correctly</li> <li>Exhaust fan is slowed or under sized</li> <li>Supply air is not balanced</li> <li>Excessive kitchen drafts</li> <li>Equipment moved from original position</li> <li>Equipment has changed</li> <li>Secondary treatment system requires service</li> </ul>	<ul> <li>Check exhaust fan is powered on and running correctly</li> <li>Check supply air capture jet fan is running</li> <li>Check the required T.A.B. pressures, must be within 10% of value shown on rating plate</li> <li>Check the exhaust fan is the correct size for required duty</li> <li>Check supply fan and adjust speed to balance kitchen</li> <li>Close doors and windows or turn off fans causing draft</li> <li>Check equipment list and revise exhaust system design as required</li> <li>Service filters</li> </ul>
Excessive oil and grease at discharge	<ul> <li>Filters are overloaded or not correctly fitted</li> <li>Hood and/or ductwork requires cleaning</li> </ul>	<ul> <li>Check they are correctly installed</li> <li>Check and clean the inside of the hood exhaust plenum(s) and ductwork</li> <li>If problem persists, contact Stoddart.</li> </ul>
Measured exhaust pressures not per rating plate (+/-10%)	<ul> <li>Exhaust/supply dampers not set correctly</li> <li>Poor seal around supply/exhaust collars</li> <li>Exhaust fan is under or over sized</li> <li>Supply fan is under or over sized</li> <li>Optional VFD is not adjusted correctly</li> </ul>	<ul> <li>Check the required T.A.B. pressures and adjust the exhaust/supply dampers</li> <li>Check the supply and exhaust collars for a sufficient seal</li> <li>Replace exhaust fan with the correct size</li> <li>Replace supply fan with the correct size</li> <li>Adjust VFD settings</li> </ul>
Lights not working	<ul> <li>Power not on</li> <li>Tubes, starter or ballast faulty</li> <li>Damaged, or incorrect wiring</li> </ul>	<ul> <li>Supply power to the lighting circuit</li> <li>Replace damaged component</li> <li>Fix faulty wiring</li> </ul>
Some lights don't turn on	<ul><li>Connections not made between hoods</li><li>Faulty lights</li></ul>	<ul> <li>Check all lighting connections have been made between each hood section</li> <li>Replace the lights</li> <li>If problem persist, contact Stoddart.</li> </ul>
Excessive ozone odour at the discharge	<ul> <li>UV lamps don't have any grease to consume</li> <li>System is on when there is no cooking</li> </ul>	<ul> <li>Check fan speed is not too high</li> <li>Turn UV off when not cooking</li> <li>If problem persists, contact Stoddart</li> </ul>
Some lights or UV tubes don't turn on	<ul> <li>Connections not made between hoods</li> <li>Faulty UV ballast</li> <li>Faulty UV tubes</li> <li>Faulty lights</li> </ul>	<ul> <li>Check all lighting, UV data connections have been made between each hood section</li> <li>Have an authorised technician service the UV ballast and tubes</li> <li>Replace the lights</li> <li>If problem persist, contact Stoddart</li> </ul>

Due to continuous product research and development, the information contained herein is subject to change without notice.





#### 4.8 Pressure Drop And Sound Data

The sound levels in the kitchen under an exhaust canopy are influenced by many external factors including the room and surfaces, the duct, the exhaust fans and supply fans.

The graphs show the noise level of the exhaust air passing through the exhaust hood (typically 50 - 65dBA) is low in comparison to ambient noise levels in commercial kitchen (typically 70 - 75dBA) environments. Closing the slide dampers increases the exit velocity and increases the air noise level.



The Exhaust Pressure drop measured across the hood increases with the airflow. The pressure measured in the duct for a given airflow increases as the slide damper is closed. The dampers should not be closed more than 50%.

For any given airflow, the pressure drop measured at the TAB point can be determined by a constant relationship;

 $Q = K * \sqrt{TAB}.$ 







$$\begin{split} \Delta P_{tt} &= \text{Exhaust section static pressure loss} \\ \Delta P_{\text{TAB}} &= \text{T.A.B.}^{\text{TM}} \text{ pressure for airflow rate} \\ measurement \end{split}$$



Section 1000 Static pressure loss and sound data

Due to continuous product research and development, the information contained herein is subject to change without notice.



# 4.9 Spare Parts 4.9.1 SPEH-HAL-UVI-UVF

Item No.	Part Number	Spare Parts Description
1	SPEH-HAL-0066 A4	Capture Jet Fan & Controller
2	SPEH-HAL-0072 A1	Grease Pot
3	SPEH-HAL-0083 A4	Blind Filter
4	CMGE-1107	Air Nozzle
5	CMGE-1110 C1	UV Ballast Tray (3 Ballast)
6	CMGE-1111	6 Tube UV Lamp Rack
7	CMGE-1112	6 Tube UV Lamp Rack
8	CMGE-1136	UV Operator Console
9	CMGE-1359	8 Tube UV Lamp Rack
10	CMGE-1360	8 Tube UV Lamp Rack
11	CMGE-1361 C1	UV Ballast Tray (4 Ballast)

Item No.	Part Number	Spare Parts Description
12	CMEL-1213	Reed Switch
13	CMEL-1214	2 Reed Switches
14	CMEL-1215	3 Reed Switches
15	CMEL-1216	4 Reed Switches
16	CMEL-1217	5 Reed Switches
17	CMEL-1218	6 Reed Switches
18	CMEL-1219	7 Reed Switches
19	CMHAL-0010	Air Nozzle Closed
20	CMFIL-0007	Mesh Filter
21	CMHAL-0019	KSA Filter



Due to continuous product research and development, the information contained herein is subject to change without notice.





#### 4.9.2 SPEH-HAL-0066

ITEM NO.	PART NUMBER	Spare Parts Description	QTY.
1	CMEL-0034	Enclosure Box	
2	CMEL-0131	Cable Gland	2 (3)
3	CMEL-1210	Terminal Strip	2
4	CMEL-1602	Dimmer Switch	1
5	CMEL-1606	Fan	
		$\frown$	
		(4)	
			2999999h
			P 90
	$\langle Q \rangle$	0	
		a a	
	@	T II	
/			
Ę	<u></u>		
	AW	/// `	$\vee$
	y - G-	<u> </u>	
	<u> </u>		
			$\langle \rangle \rangle$
		$\sim$	
		$\times$ /	
			222
		(5)	
			The



Due to continuous product research and development, the information contained herein is subject to change without notice.



#### 4.9.3 Hood Light Options



Due to continuous product research and development, the information contained herein is subject to change without notice.








Due to continuous product research and development, the information contained herein is subject to change without notice.




Due to continuous product research and development, the information contained herein is subject to change without notice.





# Australia

Service / Spare Parts Tel: 1300 307 289 Email: service@stoddart.com.au Email: spares@stoddart.com.au



<u>Sales</u> Tel: 1300 79 1954 Email: sales@stoddart.com.au

Service Request
WWW.Stoddart.com.au
Australian Business Number: 16009690251

# **New Zealand**

Service / Spare Parts Tel: 0800 935 714 Email: service@stoddart.co.nz Email: spares@stoddart.co.nz



Sales / Spare Parts Tel: 0800 79 1954 Email: sales@stoddart.co.nz Email: spares@stoddart.co.nz

www.stoddart.co.nz New Zealand Business Number: 6837694

# International

Service / Spare Parts Tel: +617 3440 7600 Email: service@stoddart.com.au Email: spares@stoddart.com.au



www.stoddart.com.au

<u>Sales</u> Tel: +617 3440 7600 Email: sales@stoddart.com.au



innovative solutions