



											MANHOUR UNIT RATE	\$ 115
SR. NO.	DESCRIPTION	QUANTITY	WASTAGE	QTY. WITH WASTAGE	UNIT	UNIT COST	MATERIAL COST	MANHOURS UNIT RATE	MANHOURS	MANHOURS COST	TOTAL TRADE COST	
HVAC ESTIMATE												
FLEXIBLE DUCT												
1	8" Dia Flexible Duct	18	10%	20	LFT	\$ 3.46	\$ 69	\$ 1	2	\$ 260	\$ 328	
2	10" Dia Flexible Duct	9	10%	10	LFT	\$ 3.01	\$ 30	\$ 15	1	\$ 101	\$ 131	
								1				
								15				
AIR DEVICES												
1	Supply Air Diffuser, 250 CFM, 10" Dia Neck Size	1	0%	1	EA	\$ 68	\$ 68	\$ 1	1	\$ 58	\$ 126	
2	Supply Air Diffuser, 275 CFM, 10" Dia Neck Size	2	0%	2	EA	\$ 68	\$ 136	\$ 15	1	\$ 115	\$ 251	
3	Supply Air Diffuser, 125 CFM, 8" Dia Neck Size	2	0%	2	EA	\$ 54	\$ 108	\$ 1	1	\$ 115	\$ 223	
4	Supply Air Diffuser, 175 CFM, 8" Dia Neck Size	2	0%	2	EA	\$ 54	\$ 108	\$ 15	1	\$ 115	\$ 223	
5	Supply Air Diffuser, 200 CFM, 8" Dia Neck Size	1	0%	1	EA	\$ 54	\$ 54	\$ 1	1	\$ 58	\$ 112	
6	Supply Air Diffuser, 200 CFM, 10"x10" Neck Size	1	0%	1	EA	\$ 68	\$ 68	\$ 15	1	\$ 58	\$ 126	
7	Return Air Grille, 14"x14" Neck Size	1	0%	1	EA	\$ 31	\$ 31	\$ 1	0.4	\$ 46	\$ 77	
8	Transfer Air Grille, 20"x10" Neck Size	1	0%	1	EA	\$ 44	\$ 44	\$ 15	1	\$ 92	\$ 136	
9	Transfer Air Grille, 14"x10" Neck Size	2	0%	2	EA	\$ 28	\$ 56	\$ 1	1	\$ 92	\$ 148	
10	24"x24" Return Air Grille with Active Carbon Filter	1	0%	1	EA	\$ 59	\$ 59	\$ 15	1	\$ 109	\$ 168	
								1				
								15				
ROOFTOP PACKAGE HEAT PUMP UNIT												
1	RTU-1 Rooftop Package Heat Pump Unit, Manufacturer York, Model# PHE4B6031, Cooling 57500 BTU/HR, 208/230 Volts, 3 Phase, 60 HZ, Weight 530 LBS	1	0%	1	EA	\$ 5,100	\$ 5,100	\$ 15	20	\$ 2,300	\$ 7,400	
								15				
								1				
EXHAUST FAN												
1	Exhaust Fan, Make Can Fan, Model# S6005", CAN-FAN, 145 CFM, 2659 RPM, 120 Volts, 1 Phase, 60 HZ, Motor Power 75 Watt, Weight 12 LBS	2	0%	2	EA	\$ 136	\$ 272	\$ 15	3	\$ 345	\$ 617	
AIR PURIFIER/ODOR CONTROLLER & FILTER												
1	APF-1 Air Purifier/Odor Controller & Filter, Manufacturer Agriair, Model# Agriair 1000-3 HO, 300-650 CFM, 115 Volts, 1 Phase, 60 HZ, 3 AMP, Plated Carbon Filter 16"x24"x1", MERV II Plated Filter 16"x24"x1", Dimension 14"x20"x27", Weight 40 LBS, With Variable Speed Blower	2	0%	2	EA	\$ 3,491	\$ 6,982	\$ 115	16	\$ 1,840	\$ 8,822	
ACTIVE CARBON FILTER												
1	FLT-1 Active Carbon Filter, Manufacturer CAN-FILTERS, Model# CAN 33, 200 CFM, Round Filter Outside Dimension 12"x13", Filter Weight 25.3 LBS, Carbon Weight 16.5 LBS, Carbon Depth 2"	2	0%	2	EA	\$ 146	\$ 292	\$ 115	2	\$ 219	\$ 510	
2	FLT-2 Active Carbon Filter, Manufacturer Flanders, Model# FCP301, Square Filter 24"x24"x4"	1	0%	1	EA	\$ 78	\$ 78	\$ 115	1	\$ 86	\$ 164	



DUCT SMOKE DETECTOR												
1	16"x14" Smoke Detector	1	0%	1	EA	\$ 54	\$ 54	\$ 1	1	\$ 58	\$ 112	
2	RTU Duct Smoke Detector	1	0%	1	EA	\$ 120	\$ 120	\$ 15	2	\$ 173	\$ 293	
15												
VOLUME DAMPER												
1	8" Dia Volume Damper	6	0%	6	EA	\$ 38	\$ 228	\$ 1	3	\$ 345	\$ 573	
2	10" Dia Volume Damper	3	0%	3	EA	\$ 40	\$ 120	\$ 15	2	\$ 173	\$ 293	
15												
BACKDRAFT DAMPER												
1	6" Dia Backdraft Damper	2	0%	2	EA	\$ 127	\$ 254	\$ 115	2	\$ 173	\$ 427	
THERMOSTAT												
1	Thermostat	1	0%	1	EA	\$ 48	\$ 48	\$ 115	1	\$ 58	\$ 106	
EXHAUST DUCT CAP												
1	6" Dia Exhaust Duct Cap	2	0%	2	EA	\$ 137	\$ 274	\$ 115	2	\$ 173	\$ 446	
CONDENSATE DRAIN PIPE												
Type "M" Copper												
1	1" Dia Condensate Drain Pipe (Assumed)	20	10%	22	LFT	\$ 5.01	\$ 110	\$ 115	1	\$ 127	\$ 237	
CONDENSATE DRAIN PIPE INSULATION												
1" Condensation Drain Pipe with Closed Cell Elastomeric Thermal Insulation (ASSUMED)												
1	1" Dia Condensate Drain Pipe Insulation	20	10%	22	LFT	\$ 2.05	\$ 45	\$ 115	1	\$ 101	\$ 146	
CONDENSATE DRAIN PIPE FITTING												
ELBOWS 90 DEGREE												
1	1" Dia Elbow	3	0%	3	EA	\$ 18.11	\$ 54	\$ 115	2	\$ 173	\$ 227	
TEE												
1	1" Dia Tee	1	0%	1	EA	\$ 41.52	\$ 42	\$ 115	1	\$ 86	\$ 128	
DUCT INSULATION												
1	1 1/2" Thick Fire Retardant Fiberglass with a Reinforced Aluminum Foil Jacket (Assumed)	1166	0%	1166	SF	\$ 1.12	\$ 1,306	\$ 115	23	\$ 2,682	\$ 3,988	
DUCT WEIGHT												
1	Galvanized Steel Duct Weight	1378	0%	1378	LB	\$ 3.25	\$ 4,479	\$ 115	69	\$ 7,924	\$ 12,402	
DUCT SUPPORT												
1	3/8" Threaded Rod	18	0%	18	EA	\$ 2.8	\$ 50	\$ 1	3	\$ 311	\$ 361	
2	1" x 22 Ga. Strap	18	0%	18	EA	\$ 7.8	\$ 140	\$ 15	4	\$ 414	\$ 554	
3	2"x18 Ga. Band Clamp	5	0%	5	EA	\$ 12.9	\$ 64	\$ 1	2	\$ 230	\$ 294	



		TOTAL MATERIAL COST	\$	20,942
		TOTAL MANHOURS' COST	\$	19,204
		TOTAL COST	\$	40,145
		OVERHEADS & PROFIT	25%	\$ 10,036
		TOTAL BID	\$	50,182
SCOPE OF ESTIMATE:				
I	1	SUPPLY & INSTALLATION		
2	3	Supply & Return Duct w/ Fittings		
4	5	Exhaust Duct w/ Fittings		
6	7	Flexible Duct		
8	9	Air Devices		
10		Rooftop Unit		
11		Exhaust Fan		
12		Air Purifier		
		Carbon Filter		
		Dampers		
		Condensate Drain		
		Insulation		
		Duct Support		
II		NOTES		
1		Pricing and manhours are calculated from PHCC database.		