


 ICIIC شرکت سرمایه گذاری صنایع شیمیایی ایران IRAN CHEMICAL INDUSTRIES INVESTMENT CO	Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit							 شرکت طرح نواندیشان
	Fire Station No.2 HVAC Equipment Data Sheets							
	Pro. Cod	Cons.	Discipline	Unit	Type	Serial	Rev	
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Change House HVAC Equipment Data Sheets

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3					
2					
1	16-Oct-2023	AFD	H.RASOOLI	H.RASOOLI	AR.AHOOEI
0	15-May-2023	IFA	H.RASOOLI	H.RASOOLI	AR.AHOOEI
REV	DATE	POI	Prepared By	Checked By	Approved By



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FAN FILTER UNIT								
SITE CONDITION	EXPOSURE :							
	ALTITUDE :		5528	(ft)	1685	(m)		
	OUTDOOR DESIGN DBT :		122	(°F)	50.0	(°C)		
GENERAL DATA	TAG NO. :		CHN-01-FFU01&CHN-01-FFU02		TYPE :		DOUBLE WIDTH DOUBLE INLET	
	QUANTITY :		2	(1 DUTY & 1 STANDBY)				
	LOCATION :		NEW FAN FILTER UNITS ROOM					
	EMPLACEMENT :		INDOOR		HAZARD AREA :		NO	
	FLUID :		Air		FLUID TEMPERATURE :		50 (°C)	
	EXPLOSION PROOF :		NO		EX. PROOF CLASS :		-	
CONFIGURATION	FAN BLADE TYPE :		BACKWARD CURVED					
	POWER TRANSMISSION :		BELT DRIVE					
	DISCHARGE DIRECTION :		HORIZONTAL DISCHARGE					
	DISCHARGE TYPE :		DUCTED					
	NUMBER OF BELT:		1					
FAN DATA	AIR FLOW :		5721	(CFM)	2700	(l/s)		
	EXTERNAL STATIC PRESSURE :		1.49	(in.w.g.)	370	(Pa)		
	FAN SIZE :		24	(in)	620	(mm)		
	INLET/OUTLET AREA :		2.90	(ft2)	0.27	(m2)		
	MAX. OUTLET VELOCITY :		1972	(fpm)	10.02	(m/s)		
	TIP SPEED* :		6,441	(fpm)	32.723	(m/s)		
	MAX FAN SPEED* :		1008	(RPM)	FAN EFFICIENCY :		MIN. 75 (%)	
	SOUND LEVEL @ 1m		80	(DB)	FAN BHP*:		1.78	
	BEARING TYPE :		PILLOW BLOCK		NO. OF SHEAVE :		(*)	
MOTOR DATA*	MOTOR SPEED :		1400	(RPM)				
	FULL LOAD AMP. :		7.5	(A)				
	IP :		55	INSULATION CLASS :		F		
	TOTAL POWER INPUT :		4.0	(HP)	3.0	(kW)		
	400	(VOLT)	3	(PH)	50	(CYC)		
MATERIAL	HOUSING MATERIAL :		(*)		IMPELLER MATERIAL :		(*)	

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FAN FILTER UNIT											
MATERIAL		SHAFT MATERIAL :		(*)		CHASSIS MATERIAL :		(*)			
ACCESSORIES	TERMINAL BOX :			REQUIRED							
	ON/OFF SWITCH :			REQUIRED							
	EMERGENCY SHUT DOWN PUSH BOTTOM :			REQUIRED							
	SHEAVE & PULLEY PROTECTION GUARD :			REQUIRED							
	VIBRATION ISOLATOR :			REQUIRED							
	ACCESS DOOR FOR HOUSING :			REQUIRED							
	BACK DRAFT DAMPER :			REQUIRED							
DAMPER	FRESH AIR	DAMPER TYPE :		MOTORIZED							
		BLADE TYPE :		OPPOSED							
	SUPPLY AIR	DAMPER TYPE :		MOTORIZED							
		BLADE TYPE :		OPPOSED							
FILTER	1ST. BED :ALUMINUM-WASHABLE	DIFFERENTIAL PRESSURE SWITCH :		REQUIRED							
		EFFICIENCY :		85%							
		MAX. AIR PRESSURE DROP :		(*)		(IN. W.G.)		(*)		(Pa)	
		FACE AREA : *		(*)		(SQ Ft)		(*)		(SQ m)	
		FRAME MATERIAL :		STAINLESS STEEL 316L							
		RAILS MATERIAL :		STAINLESS STEEL 316L							
		NO OF LAYERS :		5							
		WASHABLE FILTER ARRANGEMENT :		V-TYPE							
	2ND. BED :PLEATED	DIFFERENTIAL PRESSURE SWITCH :		REQUIRED							
		EFFICIENCY :		30%							
		MAX. AIR PRESSURE DROP :*		0.6		(IN. W.G.)		150		(Pa)	
		FACE AREA : *		(*)		(SQ Ft)		(*)		(SQ m)	
		FRAME :		STAINLESS STEEL 316L							
	UNIT ENCLOSURE :		DOUBLE SKIN								
UNIT CHASSIS MATERIAL , THICKNESS		ALUMINIUM				4		(MM)			
UNIT BOTTOM PLATE MATERIAL :		GALVANIZED				2		(MM)			

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FAN FILTER UNIT							
CASING	DRAIN PAN MATERIAL/THICKNESS :		PP		2	(MM)	
	EXTERNAL PANEL	MATERIAL :	GALVANIZED				
		THICKNESS :	1.5				(MM)
		COATING THICKNESS :	PRIMARY	70	MICRON		
			INTERMEDIATE	100	MICRON		
			FINAL	70	MICRON		
		RAL SPECIFICATION : *	CASING	(*)			
			BODY	(*)			
	INTERNAL PANEL	MATERIAL : *	(*)				
		THICKNESS :	1.5				(MM)
		COATING THICKNESS :	PRIMARY	70	MICRON		
			INTERMEDIATE	100	MICRON		
			FINAL	70	MICRON		
	PERFORATED FAN SECTION INTERNAL PANEL : REQUIRED						
	PHYSICAL DATA *	OVERALL HEIGHT :	1300	(mm)	OVERALL WIDTH :	1030	(mm)
OVERALL LENGTH :		1300	(mm)	OPERATING WEIGHT :	290	(kg)	
* SHALL BE COMPLETED / FINALIZED BY VENDOR.							
REMARKS :							
1- INTERNAL PRESSURE DROP AND TOTAL PRESSURE DROP SHALL BE FINALIZED BY VENDOR.							

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FAN FILTER UNIT					
SITE CONDITION	EXPOSURE :				
	ALTITUDE :	5528	(ft)	1685	(m)
	OUTDOOR DESIGN DBT :	122	(°F)	50.0	(°C)
GENERAL DATA	TAG NO. :	CHN-02-FFU01&CHN-01-FFU02		TYPE :	DOUBLE WIDTH DOUBLE INLET
	QUANTITY :	2	(1 DUTY & 1 STANDBY)		
	LOCATION :	NEW FAN FILTER UNITS ROOM			
	EMPLACEMENT :	INDOOR	HAZARD AREA :	NO	
	FLUID :	Air	FLUID TEMPERATURE :	50	(°C)
	EXPLOSION PROOF :	NO	EX. PROOF CLASS :	-	
CONFIGURATION	FAN BLADE TYPE :	BACKWARD CURVED			
	POWER TRANSMISSION :	BELT DRIVE			
	DISCHARGE DIRECTION :	HORIZONTAL DISCHARGE			
	DISCHARGE TYPE :	DUCTED			
	NUMBER OF BELT:	1			
FAN DATA	AIR FLOW :	5721	(CFM)	2700	(l/s)
	EXTERNAL STATIC PRESSURE :	1.13	(in.w.g.)	282	(Pa)
	FAN SIZE :	22	(in)	560	(mm)
	INLET/OUTLET AREA :	2.34	(ft2)	0.22	(m2)
	MAX. OUTLET VELOCITY :	2440	(fpm)	12.40	(m/s)
	TIP SPEED* :	7,273	(fpm)	36.945	(m/s)
	MAX FAN SPEED* :	1260	(RPM)	FAN EFFICIENCY :	MIN. 75 (%)
	SOUND LEVEL @ 1m	80	(DB)	FAN BHP*:	1.36
	BEARING TYPE :	PILLOW BLOCK		NO. OF SHEAVE :	(*)
MOTOR SPEED :	1400	(RPM)			

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FAN FILTER UNIT							
MOTOR DATA*	FULL LOAD AMP. :		7.5		(A)		
	IP :		55		INSULATION CLASS :		F
	TOTAL POWER INPUT :		4.0		(HP)		3.0 (kW)
	400		(VOLT)	3		(PH)	50 (CYC)
MATERIAL	HOUSING MATERIAL :		(*)		IMPELLER MATERIAL :		(*)
	SHAFT MATERIAL :		(*)		CHASSIS MATERIAL :		(*)
ACCESSORIES	TERMINAL BOX :			REQUIRED			
	ON/OFF SWITCH :			REQUIRED			
	EMERGENCY SHUT DOWN PUSH BOTTOM :			REQUIRED			
	SHEAVE & PULLEY PROTECTION GUARD :			REQUIRED			
	VIBRATION ISOLATOR :			REQUIRED			
	ACCESS DOOR FOR HOUSING :			REQUIRED			
	BACK DRAFT DAMPER :			REQUIRED			
DAMPER	FRESH AIR	DAMPER TYPE :		MOTORIZED			
		BLADE TYPE :		OPPOSED			
	SUPPLY AIR	DAMPER TYPE :		MOTORIZED			
		BLADE TYPE :		OPPOSED			
FILTER	1ST. BED :ALUMINUM-WASHABLE	DIFFERENTIAL PRESSURE SWITCH :		REQUIRED			
		EFFICIENCY :		85%			
		MAX. AIR PRESSURE DROP :		(*)	(IN. W.G.)	(*)	(Pa)
		FACE AREA : *		(*)	(SQ Ft)	(*)	(SQ m)
		FRAME MATERIAL :		STAINLESS STEEL 316L			
		RAILS MATERIAL :		STAINLESS STEEL 316L			
		NO OF LAYERS :		5			

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FAN FILTER UNIT								
	2ND. BED : PLEATED	WASHABLE FILTER ARRANGEMENT :		V-TYPE				
		DIFFERENTIAL PRESSURE SWITCH :		REQUIRED				
		EFFICIENCY :		30%				
		MAX. AIR PRESSURE DROP :		0.6	(IN. W.G.)	150	(Pa)	
		FACE AREA : *		(*)	(SQ Ft)	(*)	(SQ m)	
		FRAME :		STAINLESS STEEL 316L				
		CASING	UNIT ENCLOSURE :		DOUBLE SKIN			
UNIT CHASSIS MATERIAL , THICKNESS			ALUMINIUM			4	(MM)	
UNIT BOTTOM PLATE MATERIAL :			GALVANIZED			2	(MM)	
DRAIN PAN MATERIAL/THICKNESS :			PP			2	(MM)	
EXTERNAL PANEL	MATERIAL :		GALVANIZED					
	THICKNESS :		1.5			(MM)		
	COATING THICKNESS :		PRIMARY		70		MICRON	
			INTERMEDIATE		100		MICRON	
			FINAL		70		MICRON	
	RAL SPECIFICATION : *		CASING		(*)			
BODY			(*)					
INTERNAL PANEL	MATERIAL : *		(*)					
	THICKNESS :		1.5			(MM)		
	COATING THICKNESS :		PRIMARY		70		MICRON	
			INTERMEDIATE		100		MICRON	
			FINAL		70		MICRON	
PERFORATED FAN SECTION INTERNAL PANEL :								
REQUIRED								
PHYSICAL DATA*								
OVERALL HEIGHT :		1200	(mm)	OVERALL WIDTH :		930	(mm)	

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FAN FILTER UNIT						
PHYSICAL DATA	OVERALL LENGTH :	1200	(mm)	OPERATING WEIGHT :	250	(kg)
* SHALL BE COMPLETED / FINALIZED BY VENDOR.						
REMARKS :						
1- INTERNAL PRESSURE DROP AND TOTAL PRESSURE DROP SHALL BE FINALIZED BY VENDOR.						

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STEAM HEATING COIL								
SITE CONDITION	EXPOSURE :							
	ALTITUDE :		5528	(ft)	1685	(m)		
	OUTDOOR DESIGN DBT :		122	(°F)	50.0	(°C)		
GENERAL DATA	TAG NO. :		CHN-01-SCO		TYPE :	STEAM HEATING COIL		
	QUANTITY :		1	(1 DUTY & 0 STANDBY)				
	LOCATION :		OLD FAN FILTER UNITS ROOM					
	EMPLACEMENT :		INDOOR		HAZARD AREA :	NO		
	FLUID :		Air		FLUID TEMPERATURE :	-7.2	(°C)	
	EXPLOSION PROOF :		NO		EX. PROOF CLASS :	-		
HEATING COIL	TOTAL HEATING LOAD :		37.7	(MBH)	11.0	(KW)		
	ENTERING/LEAVING AIR DB TEM		19	(°F)	-7.2	(°C)		
	AIR PRESSURE DROP (WORKING)		(*)	N.W.G	(*)	(Pa)		
	AIR PRESSURE DROP (DESIGN)		(*)	N.W.G	(*)	(Pa)		
	FIN TYPE :		SPIRAL					
	FINS PER INCH :		MAX : 10	FPI	NO. OF ROW	(*)		
	FINS THICKNESS :		(*)	(IN.)	(*)	(MM)		
	FIN MATERIAL :		CARBON STEEL					
	COIL BY PASS FACTOR : *							
	COIL FACE AREA :		10.3	(SQ Ft)	0.96	(SQ. M)		
	TUBE MATERIAL :		CARBON STEEL					
	TUBE THICKNESS :		(*)	(IN.)	(*)	(MM)		
	STEAM	STEAM FLOW :		400	(Lbs/Hr)	181.44	(Kgs/Hr)	
		STEAM PRESSURE :		15	(Psig)	2.18	(KPa)	
		H.W INLET/OUTLET TEM			(°F)		(°C)	

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STEAM HEATING COIL									
	C O I L T Y P E	H O T W A T E R	H.W FLOW :		(GPM)		(L/s)		
			HOT WATER VELOCITY		(FPS)		(MPS)		
			H.W MAX. PRESSURE		Ft.W.G.		(KPa)		
			NO. OF CIRCUIT : *		CIRCUITING : *				
			COIL BY PASS FACTOR						
		E L E C T R I C	QUANTITY(WORK/STAN						
			NO. OF STAGES : *						
			CONTROL TYPE :	THYRISTOR CONTROL					
				(VOLT,	(PH)		(CYC)		
PHYSICAL DATA*	OVERALL HEIGHT :	762	(mm)	OVERALL WIDTH :	93	(mm)			
	OVERALL LENGTH :	1250	(mm)	OPERATING WEIGHT :	25	(kg)			
* SHALL BE COMPLETED / FINALIZED BY VENDOR.									
REMARKS :									
1- INTERNAL PRESSURE DROP AND TOTAL PRESSURE DROP SHALL BE FINALIZED BY VENDOR.									

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STEAM HEATING COIL											
SITE CONDITION	EXPOSURE :										
	ALTITUDE :		5528	(ft)	1685	(m)					
	OUTDOOR DESIGN DBT :		122	(°F)	50.0	(°C)					
GENERAL DATA	TAG NO. :		CHN-02-SCO		TYPE :	STEAM HEATING COIL					
	QUANTITY :		1	(1 DUTY & 0 STANDBY)							
	LOCATION :		NEW FAN FILTER UNITS ROOM								
	EMPLACEMENT :		INDOOR		HAZARD AREA :	NO					
	FLUID :		Air		FLUID TEMPERATURE :	-7.2	(°C)				
	EXPLOSION PROOF :		NO		EX. PROOF CLASS :	-					
HEATING COIL	TOTAL HEATING LOAD :		37.7	(MBH)	11.0	(KW)					
	ENTERING/LEAVING AIR DB TEM		19	(°F)	-7.2	(°C)					
	AIR PRESSURE DROP (WORKING)		(*)	N.W.G	(*)	(Pa)					
	AIR PRESSURE DROP (DESIGN)		(*)	N.W.G	(*)	(Pa)					
	FIN TYPE :		SPIRAL								
	FINS PER INCH :		MAX : 10	FPI	NO. OF ROW	(*)					
	FINS THICKNESS :		(*)	(IN.)	(*)	(MM)					
	FIN MATERIAL :		CARBON STEEL								
	COIL BY PASS FACTOR : *										
	COIL FACE AREA :		10.3	(SQ Ft)	0.96	(SQ. M)					
	TUBE MATERIAL :		CARBON STEEL								
	TUBE THICKNESS :		(*)	(IN.)	(*)	(MM)					
	STEAM	STEAM FLOW :		400	(Lbs/Hr)	181.44	(Kgs/Hr)				
		STEAM PRESSURE :		15	(Psig)	2.18	(KPa)				
		H.W INLET/OUTLET TE			(°F)		(°C)				

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STEAM HEATING COIL							
	C O I L T Y P E	H O T W A T E R	H.W FLOW :		(GPM)		(L/s)
			HOT WATER VELOCITY		(FPS)		(MPS)
			H.W MAX. PRESSURE		Ft.W.G.		(KPa)
			NO. OF CIRCUIT : *		CIRCUITING : *		
			COIL BY PASS FACTOR				
		E L E C T R I C	QUANTITY(WORK/STAN				
			NO. OF STAGES : *				
			CONTROL TYPE :		THYRISTOR CONTROL		
				(VOLT,	(PH)		(CYC)
PHYSICAL DATA*	OVERALL HEIGHT :	762	(mm)	OVERALL WIDTH :	93	(mm)	
	OVERALL LENGTH :	1250	(mm)	OPERATING WEIGHT :	25	(kg)	
* SHALL BE COMPLETED / FINALIZED BY VENDOR.							
REMARKS :							
1- INTERNAL PRESSURE DROP AND TOTAL PRESSURE DROP SHALL BE FINALIZED BY VENDOR.							