


 <b>ICIIC</b> شرکت سرمایه گذاری صنایع شیمیایی ایران <small>IRAN CHEMICAL INDUSTRIES INVESTMENT CO</small>	Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit						 شرکت طرح نو اندیشان	
	<b>Fire Station No.2 HVAC Equipment Data Sheets</b>							
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## Fire Station No.2 HVAC Equipment Data Sheets

4	12-Jan-2024	AFD	H.RASOOLI	H.RASOOLI	R.JAVADZADEH
3	6-Dec-2023	AFD	H.RASOOLI	H.RASOOLI	AR.AHOOEI
2	3-Dec-2023	AFD	H.RASOOLI	H.RASOOLI	AR.AHOOEI
1	27-Jul-2023	AFD	H.RASOOLI	H.RASOOLI	AR.AHOOEI
0	8-May-2023	IFA	H.RASOOLI	H.RASOOLI	AR.AHOOEI
<b>REV</b>	<b>DATE</b>	<b>POI</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>



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2	X	X	X	X	X			32								62							
3	X	X	X		X			33								63							
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5	X	X	X		X			35								65							
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AIR HANDLING UNIT									
SITE CONDITION	EXPOSURE :								
	ALTITUDE (ABOVE SEA LEVEL) :		5528	(Ft)	1,685		(M)		
	OUTDOOR DESIGN DB. TEMP. :		122	( ° F)	50.0		( ° C)		
	OUTDOOR DESIGN WB. TEMP:		77	( ° F)	25.0		( ° C)		
LOCATION :		FIRESTATION BUILDING – ROOF							
TAG NO. :		FIR-PKG-101(AHU)							
MIXING BOX WITH PRE-FILTER	QTY :		1						
	AHU TYPE :		HORIZONTAL						
	SUPPLY AIR :		2,903	(CFM)	1,370		(L/s)		
	RETURN AIR :		2,099	(CFM)	991		(L/s)		
	FRESH AIR :		804	(CFM)	379		(L/s)		
	EXHAUST AIR (FROM AHU) :		0	(CFM)	0		(L/s)		
DAMPER	FRESH AIR	DAMPER TYPE :			MOTORIZED				
		BLADE TYPE :			OPPESED				
	SUPPLY AIR	DAMPER TYPE :			MOTORIZED				
		BLADE TYPE :			OPPOSED				
	RETURN AIR	DAMPER TYPE :			MOTORIZED				
		BLADE TYPE :			OPPOSED				
FILTER	1ST. BED :ALUMINUM-WASHABLE	DIFFERENTIAL PRESSURE SWITCH :			REQUIRED				
		EFFICIENCY :			30%				
		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 :			45-50%				
		MAX. AIR PRESSURE DROP : *			(*)	(IN. W.G.)	(*)	(Pa)	
		FACE AREA : *			(*)	(SQ Ft)	(*)	(SQ m)	
		FRAME :			STAINLESS STEEL 316L				
	3RD. BED :BAG	DIFFERENTIAL PRESSURE SWITCH :			REQUIRED				
		EFFICIENCY :			90%				
		MAX. AIR PRESSURE DROP : *			(*)	(IN. W.G.)	(*)	(Pa)	
		FACE AREA : *			(*)	(SQ Ft)	(*)	(SQ m)	
FRAME :			STAINLESS STEEL 316L						

 شرکت سرمایه گذاری مناطق صنعتی ایران IRAN CHEMICAL INDUSTRIES INVESTMENT CO		Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit							 شرکت طرح نوآندیشان
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AIR HANDLING UNIT									
SUPPLY  FAN  DATA	NO. OF FAN (DUTY/STAND BY) : *			1 (DUTY)					
	FAN DIRECTION :			FRONT DISCHARGE					
	FAN SIZE : *			11	(IN)	279.4		(MM)	
	TOTAL AIR FLOW :			2,903	(CFM)	1,371		(L/s)	
	AIR FLOW FOR EACH FAN : *			2,903	(CFM)	1,371		(L/s)	
	INTERNAL STATIC PRESSURE : *			2.45	(IN. W.G.)	610		(Pa)	
	EXTERNAL STATIC PRESSURE :			0.95	(IN. W.G.)	236		(Pa)	
	TOTAL STATIC PRESSURE : *			3.40	(IN. W.G.)	846		(Pa)	
	FAN BLADE TYPE :			BACKWARD					
	FAN IMPELLER MATERIAL :			CARBON STEEL					
	FAN HOUSING MATERIAL :			ST37					
	FAN BHP : *			2.2				(BHP)	
	TIP SPEED : *			MAX 20					(RPM)
	FAN SOUND LEVEL :			MAX ALLOWABLE NOISE LEVEL AT 1(M) FROM UNIT : 85					(DB)
	FAN EFFICIENCY : *			MIN 70					(%)
	DIFFERENTIAL PRESSURE SWITCH :			REQUIRED					
	MOTOR	NUMBER (DUTY/STAND BY) : *			1 (DUTY)				
		FAN CONNECTION TYPE TO ELECTROMOTOR:			DIRECT DRIVE				
		NO OF BELT : *			(*)				
		BELT TYPE : *			(*)				
		BEARING TYPE :			PILLOW BLOCK				
		LUBRICANT PORT FOR BEARING : *			(*)				
		PROTECTION DEGREE :			IP55				
		INSULATION CLASS :			F				
		RPM : *			1480				
		TOTAL POWER INPUT:			3	(HP)	2		(KW)
		CONTROL SYSTEM:			-				
		400	(VOLT)	3	(PH)	50			(CYC)
COOLING COIL	TOTAL COOLING LOAD :			90	(MBH)	26.3		(KW)	
	SENSIBLE COOLING LOAD :			77	(MBH)	22.6		(KW)	
	ENTERING AIR DB / WB TEMP. :			88.3/ 67	( ° F)	31.3 / 19.4		( ° C)	
	LEAVING AIR DB / WB TEMP. :			58.1 / 56	( ° F)	14.5 / 13.4		( ° C)	
	EVAPORATING TEMP : *			MAX.	45	( ° F)	7.2	( ° C)	
	ADP : *			55.3	( ° F)	12.9		( ° C)	
	REFRIGERANT TYPE :			R134a					
	NO OF COIL : *			1					

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AIR HANDLING UNIT													
COOLING COIL	COIL FACE AREA : *				*		(SQ Ft)	*					(SQ. M)
	COIL VELOCITY :				MAX.	500	FPM	2.54				MPS	
	COIL HEAT TREANSFER AREA : *				(*)		(SQ Ft)	(*)				(SQ. M)	
	MAX. AIR PRESSURE DROP : *				*		(IN.W.G.)	*					(Pa)
	FIN TYPE : *				CORRUGATED								
	FINS PER INCH : *				MAX. 10								FPI
	FINS THICKNESS : *				MIN. 0.0059		(IN.)	MIN. 0.15					(MM)
	NO.OF ROWS : *				4			CIRCUITING : FULL					
	DIFFERENTIAL PRESSURE TRANSMITTER:				REQUIRED								
	COIL BY PASS FACTOR : *				0.1								
	TUBE SHEET ARRANGEMENT : *				TRIANGLE ARRANGEMENT								
	TUBE MATERIAL :				SEAMLESS COPPER								
	TUBE THICKNESS : *				MIN. 0.014 (IN)								
	FIN MATERIAL :				ALUMINIUM (WITH CORROSION PROTECTION)								
	ANTI CORROSION COATING :				BLYGOLD / HERESITE								
	ANTI FREEZE PROTECTION :				REQUIRED								
HEATING COIL	TOTAL HEATING LOAD :				72.2		(MBH)	21.2				(KW)	
	ENTERING/LEAVING AIR DB TEMP. :				70 / 84.2		( ° F)	21 / 29				( ° C)	
	AIR PRESSURE DROP (WORKING):*						(IN.W.G.)					(Pa)	
	AIR PRESSURE DROP (DESIGN) :				*		(IN.W.G.)	*				(Pa)	
	FIN TYPE :				CORRUGATED								
	FINS PER INCH :				MAX : 10		FPI	NO. OF ROW :		1			
	FINS THICKNESS :				MIN :0.0059		(IN.)	MIN : 0.15					(MM)
	FIN MATERIAL :				STAINLESS STEEL								
	COIL BY PASS FACTOR : *				0.1								
	COIL FACE AREA :				*		(SQ Ft)	*				(SQ. M)	
	TUBE MATERIAL :				STAINLESS STEEL								
	TUBE THICKNESS : *				MIN. 0.014 (IN)		(IN.)	MIN : 0.35					(MM)
	HOT WATER	H.W INLET/OUTLET TEMP. :			180 / 160		( ° F)	82 / 71				( ° C)	
		H.W FLOW :			7.2		(GPM)	0.5				(L/s)	
		HOT WATER VELOCITY :*					(FPS)	0				(MPS)	
		H.W MAX. PRESSURE DROP:			10		(Ft.W.G.)	3.3				(KPa)	
		NO. OF CIRCUIT : *						CIRCUITING :					
		COIL BY PASS FACTOR : *			0.1								
ELECTRICAL AND CONTROL PANEL	ELECTRICAL AND CONTROL PANEL :					REQUIRED							
	ELECTRICAL AND CONTROL PANEL TYPE :					CENTRAL-REMOTE FLOOR MOUNTED							
	ELECTRICAL AND CONTROL PANEL PROTECTION CLASS :					IP42							
	PACKAGED UNIT ENCLOSURE :					DOUBLE SKIN							

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AIR HANDLING UNIT						
CASING	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)		
		INSULATION / THICKNESS :		POLYURETHANE		50 (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		

 شرکت سرمایه گذاری متعلق به هیئت مدیره ایران IRAN IC INDUSTRIAL INDUSTRIES INVESTMENT CO	Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit							 شرکت طرح نوآندیشان
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AIR HANDLING UNIT			
PHYSICAL DATA	OVERALL HEIGHT (*)	*	(MM)
	OVERALL LENGTH (*)	*	(MM)
	OVERALL WIDTH (*)	*	(MM)
	OPERATING WEIGHT (*)	*	(KG)
* SHALL BE COMPLETED / FINALIZED BY VENDOR.			



REMARKS :

- 1- PACKAGED UNIT SHALL BE DESIGNED AND MANUFACTURED TO OPERATE FOR YEAR AROUND.
- 2- INTERNAL PRESSURE DROP AND TOTAL PRESSURE DROP SHALL BE FINALIZED BY VENDOR.



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AIR COOLED CONDENSING UNIT										
SITE CONDITION	EXPOSURE :									
	ALTITUDE (ABOVE SEA LEVEL) :		5528	(Ft)	1,685		(M)			
	OUTDOOR DESIGN DB. TEMP. :		122	(°F)	50.0		(°C)			
	OUTDOOR DESIGN WB. TEMP:		77	(°F)	25.0		(°C)			
LOCATION :		FIREFIGHTING BUILDING – ROOF								
TAG NO. :		FIR-PKG-101(ACC)								
NUMBER OF CONDENSER :		1								
AIR-COOLED CONDENSER	TOTAL HEAT REJECTION : *		120	(MBH)	35		(KW)			
	CONDENSING TEMP. : *		137	( ° F)	58		( ° C)			
	TEMP. DIFFERENCE (TD) :		MAX. 18	( ° F)	MAX. 10		( ° C)			
	COIL	NO. OF CIRCUIT : *		(*)	CIRCUITING : *		HALF			
		NO OF COIL FOR EACH CIRCUIT : *				TOTAL NO OF COIL : *		*		
		NO. OF ROWs : *		*		FINS PER INCH :		MAX. 10		
		COIL FACE AREA* :		(*)	(SQ.FT)	(*)		(SQ.M)		
		COIL VELOCITY :		MAX. 550	(FPM)	2.8		(M/S)		
		CONDENSER COIL ARRANGEMENT :*		V TYPE						
		MAX. AIR PRESSURE DROP :		*	(IN.W.G.)	*		(Pa)		
		FIN THICKNESS : *		MIN. 0.006	(IN)	MIN. 0.15		(MM)		
		FIN MATERIAL :		ALUMINIUM						
		TUBE SIZE : *		(*)	(IN)	(*)		(MM)		
		TUBE THICKNESS : *		(*)	(IN)	(*)		(MM)		
		TUBE MATERIAL :		SEAMLESS COOPER						
		PRESSURE RELIEF VALVE :		REQUIRED						
		COATING HEAT TRANSFER CORRECTION FACTOR :		5%						
		ANTI CORROSION COATING :		BLYGOLD / HERESITE						
	FAN	QUANTITY(FOR EACH) : *		1	TYPE :	AXIAL, ROTOREX				
		NO F FAN FOR EACH CIRCUIT : *		1						
		CLASS :		F	FAN DIA. : *	*	(IN)	*	(MM)	
		TOTAL AIR FLOW : *		*	(CFM)	*		(L/S)		
		FAN EFFICIENCY:		MIN. 75	(%)					
		FAN SPEED :		MAX. 900					(RPM)	
		ALLOWABLE NOISE LEVEL AT 1(M) FROM UNIT :		MAX. 85					(DB)	
		FAN FRAME MATERIAL : *		(*)						
		FAN IMPELLER MATERIAL : *		(*)						
		FAN HOUSING MATERIAL : *		(*)						
PROTECTION DEGREE :		IP55								
TOTAL ELEC. POWER INPUT : *		2	(HP)	1		(KW)				
400		(VOLT)	3	(PH.)	50		(CYC)			



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AIR COOLED CONDENSING UNIT									
COMPRESSOR	TYPE :			HERMETIC SCROLL		QUANTITY : *		2	
	TOTAL REFRIGERANT CHARGE* :			*		(Lb)	*		(Kg)
	SUPER HEAT TEMP(MAX) :			10		( ° F)	5.5		( ° C)
	SUBCOOLING TEMP(MAX) :			7		( ° F)	3.8		( ° C)
	INSULATION CLASS :			F					
	PROTECTION DEGREE :			IP55					
	LIQUID INJECTION :			REQUIRED					
	OIL LEVEL SWITCH :			REQUIRED					
	OIL HEATER :			REQUIRED					
	SIGHT GLASS :			REQUIRED					
	SUCTION VALVE :			REQUIRED					
	DISCHARGE VALVE :			REQUIRED					
	TOTAL ELEC. POWER INPUT : *			15		(HP)	11		(KW)
	400		(VOLT)	3		(PH)	50		(CYC)
	CAPACITY REDUCTION :			25/50/75/100 (% FULL CIRCUIT)					
REFRIGERATION EQUIPMENT	EXPANSION VALVE TYPE :			ELECTRONIC					
	ANTI FREEZ PROTECTION :			REQUIRED					
	ACCUMULATOR :			REQUIRED					
	ACCUMULATOR WITH HEAT EXCHANGER :			REQUIRED					
	RECEIVERS TANK :			REQUIRED					
	OIL SEPARATOR :			REQUIRED					
	SOLENOID VALVE FOR EACH CIRCUIT :			REQUIRED					
	FILTER DRIER FOR EACH CIRCUIT :			REQUIRED					
	SIGHT GLASS FOR EACH CIRCUIT :			REQUIRED					
	SERVICE VALVE FOR EACH CIRCUIT :			REQUIRED					
	SUCTION PRESSURE GUAGE FOR EACH CIRCUIT :			REQUIRED					
	DISCHARGE PRESSURE GUAGE FOR EACH CIRCUIT :			REQUIRED					
	OIL PRESSURE GUAGE FOR EACH CIRCUIT :			FOR COMPACT SCREW COMPRESSORS NOT REQUIRED					
	YEAR ROUND OPERATION :			REQUIRED					
	ELECTRICAL AND CONTROL PANEL	ELECTRICAL AND CONTROL PANEL :			REQUIRED				
ELECTRICAL AND CONTROL PANEL TYPE :			CENTRAL-REMOTE FLOOR MOUNTED						
ELECTRICAL AND CONTROL PANEL PROTECTION CLASS :			IP65						



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AIR COOLED CONDENSING UNIT				
CASING	PACKAGED UNIT ENCLOSURE :		DOUBLE SKIN	
	UNIT CHASIS MATERIAL , THICKNESS :CARBON STEEL(STANDARD PROFILE)		CARBON STEEL(STANDARD PROFILE)	
	UNIT BOTTOM PLATE MATERIAL :		GALVANIZED	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		(*)	
PERFORATED FAN SECTION INTERNAL PANEL :		REQUIRED		
PHYSICAL DATA	OVERALL HEIGHT (*)	*	(MM)	
	OVERALL LENGTH (*)	*	(MM)	
	OVERALL WIDTH (*)	*	(MM)	
	OPERATING WEIGHT (*)	*	(KG)	
* SHALL BE COMPLETED / FINALIZED BY VENDOR.				



REMARKS :

1- PACKAGED UNIT SHALL BE DESIGNED AND MANUFACTURED TO OPERATE FOUR YEAR AROUND.

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	ALTITUDE (ABOVE SEA LEVEL) :		5528	(Ft)	1,685	(M)		
	OUTDOOR DESIGN DB. TEMP. :		122	(°F)	50	(°C)		
	OUTDOOR DESIGN WB. TEMP:		77	(°F)	25	(°C)		
HOT WATER UNIT HEATER								
LOCATION :		01-FIRE ENGINE						
TAG NO. :		FIR-UH-01A~D						
QUANTITY :		4						
TYPE :		<input type="checkbox"/> ELECTRICAL			<input checked="" type="checkbox"/> HOT WATER			
UNIT HEATER DATA	TOTAL HEATING CAPACITY:		110,325	(BTU/HR)	32	(KW)		
	E.E.R :		*	BTU/HR.W				
	MAX. AIR CIRCULATING :		2400 (*)	CFM	4075 (*)	(M³/HR)		
				NOISE LEVEL (IN/OUT) :	MAX 40/50 (*)	(DB)		
ELECTRICAL DATA ★	TOTAL ELEC. POWER INPUT :		0.5 (*)	(HP)	0.37 (*)	(KW)		
	380 (VOLT)	3	(PH)	50	(CYC)			
	RUNNING CURRENT :		(*)	(AMP)				
PHYSICAL DATA ★			INDOOR UNIT					
	DIMENSIONS	OVERALL HEIGHT :		735 (*)	(MM)			
		OVERALL WIDTH :		920 (*)	(MM)			
		OVERALL DEPTH :		610 (*)	(MM)			
	CLEARANCE	LEFT/RIGHT SIDE :		*	(MM)			
		UP/BOTTOM SIDE :		*	(MM)			
		FRONT/REAR SIDE :		*	(MM)			
	REFRIGERANT CHARGE :		*	(Lb)				
	TOTAL OPERATING WEIGHT :		*	(Lb)				
★ COMPLETED BY VENDOR / HVACR ENGINEER (IF NECESSARY)								
REMARKS :								

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	<b>Fire Station No.2 HVAC Equipment Data Sheets</b>								
Pro. Cod	Cons.	Discipline	Unit	Type	Serial	Rev			
Contract No.: 6258	LRP	TNA	HV	19	DSH	0001	04	Page: 6 of 27	
Old Doc No. :	-	Doc No. :			LRP-TNA-HV-15-DSH-0001				
<b>CONDENSING BOILER</b>									
SITE CONDITION	ALTITUDE (ABOVE SEA LEVEL) :		5,528	(Ft)	1,685		(M)		
LOCATION :	FIRE STATION NO.2 - STORE								
TAG NO. :	FIR-BO-001, FIRE-BO-002								
BOILER TYPE :	CONDENSING BOILER								
FUEL TYPE :	<input checked="" type="checkbox"/> NATURAL GAS		<input type="checkbox"/> FUEL OIL		<input type="checkbox"/> NATURAL GAS & FUEL OIL				
BOILER RATING	MAX. HEATING CAPACITY :		535	(MBH)	157		(KW)		
	OPERATING PRESSURE :		58	(Psi)	4		(Bar)		
FUEL CONSUMPTION	NATURAL GAS FLOW RATE :		459	(CFH)	21		(M <sup>3</sup> /Hr)		
	FUEL OIL FLOW RATE :		-	(GPH)	-		(THERMS)		
	MINIMUM REGULATED GAS PRESSURE :		0.25	(Psi)	0.0172		(Bar)		
BURNER * POWER CONSUMPTION	NO. OF STAGES :		(*)						
	BLOWER MOTOR :		(*)		(HP)	(*)		(KW)	
	OIL PUMP MOTOR :		-		(HP)	-		(KW)	
	OIL HEATER :		-		(HP)	-		(KW)	
ELECTRIC DATA *	TOTAL POWER INPUT:		(*)		(HP)	(*)		(KW)	
	(*)		(VOLT)	(*)	(PH)	(*)		(CYC)	
HOT WATER DATA	SUPPLY WATER TEMP :		180		(°F)	82.2		(°C)	
	RETURN WATER TEMP :		160		(°F)	71.1		(°C)	
	FLOW RATE :		(*)		(GPM)	(*)		(L/s)	
	WATER VOLUME :		(*)		(Gal)	(*)		(Lit)	
	BOILER PRESSURE DROP :		(*)		(Ft.W.G)	(*)		(KPa)	
BOILER PIPING★ CONNECTIONS	SUPPLY WATER :		(*)		(IN)	DRAIN SIZE :		(IN)	
	RETURN WATER :		(*)		(IN)	CHIMNEY DIA. :		(IN)	
	SAFETY VALVE NO. & DIA. :		*		(IN)				
PHYSICAL★ DATA	OVERALL HEIGHT :		(*)		(MM)	CLEARANCE	FRONT :	*	(MM)
	OVERALL LENGTH :		(*)		(MM)		REAR :	*	(MM)
	OVERALL WIDTH :		(*)		(MM)		RIGHT SIDE :	*	(MM)
	WEIGHT		OPERATING :		(Kg)		LEFT SIDE :	*	(MM)
	SHIPPING :		(*)		(Kg)				
★ COMPLETED BY VENDOR / HVACR ENGINEER (IF NECESSARY)									
REMARKS :									
Cast Iron Package Unit should include a suitable expansion tank, burner, domestic hot water generator and all needed safety and control devices.									



[illegible]



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Pro. Cod	Cons.	Discipline	Unit	Type	Serial	Rev		
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Old Doc No. :	-	Doc No. :			LRP-TNA-HV-15-DSH-0001			
CENTRIFUGAL , IN-LINE CIRCULATING PUMP								
SITE CONDITION	ALTITUDE (ABOVE SEA LEVEL) :		5,528	(Ft)	1,685		(M)	
LOCATION :	HVAC ROOM - Unit Heater			<input checked="" type="checkbox"/> INDOOR	<input type="checkbox"/> OUTDOOR			
TAG NO. :	FIR-PU-103 & FIR-PU-104							
FLUID DATA	NAME OF FLUID :		HOT WATER		DUTY :	2x100 (ONE DUTY, ONE STANDBY)		
	LIQUID TEMP. :		180		(°F)	82.2 (°C)		
	SPECIFIC GRAVITY :		1					
	VISCOSITY :		0.356		(CP)	@	82.2 (°C)	
	VAPOR PRESSURE (ABSOLUTE) :		21.8		(Psi)	151 (KPa)		
PUMP DATA	IMPELLER DIA. :		*		(IN)	*		
	PUMP SPEED :		1450 (*)		(RPM)	EFFICIENCY :	70 (%)	
	SPECIFIC SPEED :		*		(RPM)	PUMP BHP :	(*)	
	MAX. HEAD :		31		(Ft)	9.4 (M)		
	FLOW RATE :		44.1		(GPM)	10.0 (M³/Hr)		
	NPSHR : ★		*		(Ft)	*		
	NPSHA : ★		*		(Ft)	*		
	NOISE :		MAX 85 (AT 1 METER)		(DB)			
NOZZLE CONNECTION	SUCTION DIA. :		*		(IN)	*		
	DISCHARGE DIA. :		*		(IN)	*		
ELECTRICAL DATA*	TOTAL ELEC. POWER INPUT :		*		(KW)	1.5* (HP)		
	230 (VOLT)		1		(PH)	50 (CYC)		
	MOTOR SPEED :		1450 (*)		(RPM)			
	FULL LOAD AMP. ★		*		LOCKED ROTOR AMP. ★	*		
PHYSICAL DATA★	OVERALL LENGTH :		*		(MM)	CLEARANCE	LEFT SIDE :	
	OVERALL WIDTH :		*		(MM)		RIGHT SIDE :	
	OVERALL HEIGHT :		*		(MM)		FRONT SIDE :	
	TOTAL OPERATING WEIGHT :		*		(Kg)		REAR SIDE :	
★ COMPLETED BY VENDOR / HVACR ENGINEER (IF NECESSARY)								
REMARKS :								















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		Fire Station No.2 HVAC Equipment Data Sheets							
		Pro. Cod	Cons.	Discipline	Unit	Type	Serial		Rev
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Old Doc No.	-	Doc No. :		LRP-TNA-HV-15-DSH-0001					
<b>AXIAL FAN</b>									
SITE CONDITION	EXPOSURE :								
	ALTITUDE :		5,528		(ft)	1,685		(m)	
	OUTDOOR DESIGN DBT :		122		(°F)	50.0		(°C)	
GENERAL DATA	TAG NO. :		FIR-EF-101 ~103		MOUNTED ON :		WALL		
	QUANTITY :		3		( 3 DUTY & 0 STANDBY )				
	LOCATION :		FIRE ENGINE						
	HAZARD AREA :		NO		TYPE :		PROPELLER		
	EXPLOSION PROOF :		NO		EX. PROOF CLASS :		NO		
FAN DATA	AIR FLOW :		4330		(CFM)		2044 (l/s)		
	TOTAL STATIC PRESSURE :		0.24		(in.w.g.)		60 (Pa)		
	FAN SIZE :		*		(in)		* (mm)		
	MAX FAN SPEED* :		*		(RPM)	FAN EFFICIENCY* :		MIN. 75 (%)	
	SOUND LEVEL @ 1m		80		(DB)	FAN BHP :		* -	
MOTOR DATA	MOTOR SPEED :		*		(RPM)	FULL LOAD AMP. :		* (A)	
	INSULATION CLASS :		F		IP :		55 -		
	TOTAL POWER INPUT :		0.5		(HP)		0.37 (kW)		
	220		(VOLT)	1		(PH)	50 (CYC)		
ACCESSORIES	ON/OFF SWITCH :				REQUIRED				
	EMERGENCY SHUT DOWN PUSH BOTTOM :				REQUIRED				
	FAN GUARD :				REQUIRED				
PHYSICAL DATA*	OVERALL HEIGHT :		*		(mm)	CLEARANCE	LEFT SIDE :		(*) (mm)
	OVERALL LENGTH :		*		(mm)		RIGHT SIDE :		(*) (mm)
	OVERALL DEPTH :		*		(mm)		UP SIDE :		(*) (mm)
	TOTAL OPERATING WEIGHT :		*		(kg)		BOTTOM SIDE :		(*) (mm)
* SHALL BE COMPLETED / FINALIZED BY VENDOR.									
REMARKS :									



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Contract No.: 6258		LRP	TNA	HV	19	DSH	0001	04	Page: 12 of 27	
Old Doc No.	-	Doc No. :		LRP-TNA-HV-15-DSH-0001						
<b>AXIAL FAN</b>										
SITE CONDITION	EXPOSURE :									
	ALTITUDE :		5,528		(ft)	1,685		(m)		
	OUTDOOR DESIGN DBT :		122		(°F)	50.0		(°C)		
GENERAL DATA	TAG NO. :		FIR-EF-104		MOUNTED ON :		WALL			
	QUANTITY :		1		( 1 DUTY & 0 STANDBY )					
	LOCATION :		Work Bench							
	HAZARD AREA :		NO		TYPE :		PROPELLER			
	EXPLOSION PROOF :		NO		EX. PROOF CLASS :		NO			
FAN DATA	AIR FLOW :		350		(CFM)		165		(l/s)	
	TOTAL STATIC PRESSURE :		0.24		(in.w.g.)		60		(Pa)	
	FAN SIZE :		*		(in)		*		(mm)	
	MAX FAN SPEED* :		*		(RPM)	FAN EFFICIENCY* :		MIN. 75 (%)		
	SOUND LEVEL @ 1m		80		(DB)	FAN BHP :		* -		
MOTOR DATA	MOTOR SPEED :		*		(RPM)	FULL LOAD AMP. :		* (A)		
	INSULATION CLASS :		F		IP :		55 -			
	TOTAL POWER INPUT :		0.3		(HP)		0.25 (kW)			
	220		(VOLT)	1		(PH)	50 (CYC)			
ACCESSORIES	ON/OFF SWITCH :				REQUIRED					
	EMERGENCY SHUT DOWN PUSH BOTTOM :				REQUIRED					
	FAN GUARD :				REQUIRED					
PHYSICAL DATA*	OVERALL HEIGHT :		*		(mm)	CLEARANCE	LEFT SIDE :		(*) (mm)	
	OVERALL LENGTH :		*		(mm)		RIGHT SIDE :		(*) (mm)	
	OVERALL DEPTH :		*		(mm)		UP SIDE :		(*) (mm)	
	TOTAL OPERATING WEIGHT :		*		(kg)		BOTTOM SIDE :		(*) (mm)	
* SHALL BE COMPLETED / FINALIZED BY VENDOR.										
REMARKS :										



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Old Doc No.	-	Doc No. :		LRP-TNA-HV-15-DSH-0001					
<b>AXIAL FAN</b>									
SITE CONDITION	EXPOSURE :								
	ALTITUDE :		5,528		(ft)	1,685		(m)	
	OUTDOOR DESIGN DBT :		122		(°F)	50.0		(°C)	
GENERAL DATA	TAG NO. :		FIR-EF-105		MOUNTED ON :		WALL		
	QUANTITY :		1		( 1 DUTY & 0 STANDBY )				
	LOCATION :		Locker Room						
	HAZARD AREA :		NO		TYPE :		PROPELLER		
	EXPLOSION PROOF :		NO		EX. PROOF CLASS :		NO		
FAN DATA	AIR FLOW :		154		(CFM)		73 (l/s)		
	TOTAL STATIC PRESSURE :		0.24		(in.w.g.)		60 (Pa)		
	FAN SIZE :		*		(in)		* (mm)		
	MAX FAN SPEED* :		*		(RPM)	FAN EFFICIENCY* :		MIN. 75 (%)	
	SOUND LEVEL @ 1m		80		(DB)	FAN BHP :		* -	
MOTOR DATA	MOTOR SPEED :		*		(RPM)	FULL LOAD AMP. :		* (A)	
	INSULATION CLASS :		F		IP :		55 -		
	TOTAL POWER INPUT :		0.03		(HP)		0.02 (kW)		
	220		(VOLT)	1		(PH)	50 (CYC)		
ACCESSORIES	ON/OFF SWITCH :				REQUIRED				
	EMERGENCY SHUT DOWN PUSH BOTTOM :				REQUIRED				
	FAN GUARD :				REQUIRED				
PHYSICAL DATA*	OVERALL HEIGHT :		*		(mm)	CLEARANCE	LEFT SIDE :		(*) (mm)
	OVERALL LENGTH :		*		(mm)		RIGHT SIDE :		(*) (mm)
	OVERALL DEPTH :		*		(mm)		UP SIDE :		(*) (mm)
	TOTAL OPERATING WEIGHT :		*		(kg)		BOTTOM SIDE :		(*) (mm)
* SHALL BE COMPLETED / FINALIZED BY VENDOR.									
REMARKS :									

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<b>AXIAL FAN</b>										
SITE CONDITION	EXPOSURE :									
	ALTITUDE :		5,528		(ft)	1,685		(m)		
	OUTDOOR DESIGN DBT :		122		(°F)	50.0		(°C)		
GENERAL DATA	TAG NO. :		FIR-EF-106		MOUNTED ON :		WALL			
	QUANTITY :		1		( 1 DUTY & 0 STANDBY )					
	LOCATION :		Toilet							
	HAZARD AREA :		NO		TYPE :		PROPELLER			
	EXPLOSION PROOF :		NO		EX. PROOF CLASS :		NO			
FAN DATA	AIR FLOW :		158		(CFM)		75		(l/s)	
	TOTAL STATIC PRESSURE :		0.24		(in.w.g.)		60		(Pa)	
	FAN SIZE :		*		(in)		*		(mm)	
	MAX FAN SPEED* :		*		(RPM)	FAN EFFICIENCY* :		MIN. 75 (%)		
	SOUND LEVEL @ 1m		80		(DB)	FAN BHP :		* -		
MOTOR DATA	MOTOR SPEED :		*		(RPM)	FULL LOAD AMP. :		* (A)		
	INSULATION CLASS :		F		IP :		55 -			
	TOTAL POWER INPUT :		0.03		(HP)		0.02 (kW)			
	220		(VOLT)	1		(PH)	50 (CYC)			
ACCESSORIES	ON/OFF SWITCH :				REQUIRED					
	EMERGENCY SHUT DOWN PUSH BOTTOM :				REQUIRED					
	FAN GUARD :				REQUIRED					
PHYSICAL DATA*	OVERALL HEIGHT :		*		(mm)	CLEARANCE	LEFT SIDE :		(*) (mm)	
	OVERALL LENGTH :		*		(mm)		RIGHT SIDE :		(*) (mm)	
	OVERALL DEPTH :		*		(mm)		UP SIDE :		(*) (mm)	
	TOTAL OPERATING WEIGHT :		*		(kg)		BOTTOM SIDE :		(*) (mm)	
* SHALL BE COMPLETED / FINALIZED BY VENDOR.										
REMARKS :										



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<b>AXIAL FAN</b>									
SITE CONDITION	EXPOSURE :								
	ALTITUDE :		5,528		(ft)	1,685		(m)	
	OUTDOOR DESIGN DBT :		122		(°F)	50.0		(°C)	
GENERAL DATA	TAG NO. :		FIR-EF-107		MOUNTED ON :		WALL		
	QUANTITY :		1		( 1 DUTY & 0 STANDBY )				
	LOCATION :		Pantry						
	HAZARD AREA :		NO		TYPE :		PROPELLER		
	EXPLOSION PROOF :		NO		EX. PROOF CLASS :		NO		
FAN DATA	AIR FLOW :		142		(CFM)		67 (l/s)		
	TOTAL STATIC PRESSURE :		0.24		(in.w.g.)		60 (Pa)		
	FAN SIZE :		*		(in)		* (mm)		
	MAX FAN SPEED* :		*		(RPM)	FAN EFFICIENCY* :		MIN. 75 (%)	
	SOUND LEVEL @ 1m		80		(DB)	FAN BHP :		* -	
MOTOR DATA	MOTOR SPEED :		*		(RPM)	FULL LOAD AMP. :		* (A)	
	INSULATION CLASS :		F		IP :		55 -		
	TOTAL POWER INPUT :		0.03		(HP)		0.02 (kW)		
	220		(VOLT)	1		(PH)	50 (CYC)		
ACCESSORIES	ON/OFF SWITCH :				REQUIRED				
	EMERGENCY SHUT DOWN PUSH BOTTOM :				REQUIRED				
	FAN GUARD :				REQUIRED				
PHYSICAL DATA*	OVERALL HEIGHT :		*		(mm)	CLEARANCE	LEFT SIDE :		(*) (mm)
	OVERALL LENGTH :		*		(mm)		RIGHT SIDE :		(*) (mm)
	OVERALL DEPTH :		*		(mm)		UP SIDE :		(*) (mm)
	TOTAL OPERATING WEIGHT :		*		(kg)		BOTTOM SIDE :		(*) (mm)
* SHALL BE COMPLETED / FINALIZED BY VENDOR.									
REMARKS :									

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<b>AXIAL FAN</b>									
SITE CONDITION	EXPOSURE :								
	ALTITUDE :		5,528		(ft)	1,685		(m)	
	OUTDOOR DESIGN DBT :		122		(°F)	50.0		(°C)	
GENERAL DATA	TAG NO. :		FIR-EF-108		MOUNTED ON :		WALL		
	QUANTITY :		1		( 1 DUTY & 0 STANDBY )				
	LOCATION :		Store						
	HAZARD AREA :		NO		TYPE :		PROPELLER		
	EXPLOSION PROOF :		NO		EX. PROOF CLASS :		NO		
FAN DATA	AIR FLOW :		260		(CFM)		123 (l/s)		
	TOTAL STATIC PRESSURE :		0.24		(in.w.g.)		60 (Pa)		
	FAN SIZE :		*		(in)		* (mm)		
	MAX FAN SPEED* :		*		(RPM)	FAN EFFICIENCY* :		MIN. 75 (%)	
	SOUND LEVEL @ 1m		80		(DB)	FAN BHP :		* -	
MOTOR DATA	MOTOR SPEED :		*		(RPM)	FULL LOAD AMP. :		* (A)	
	INSULATION CLASS :		F		IP :		55 -		
	TOTAL POWER INPUT :		0.3		(HP)		0.25 (kW)		
	220		(VOLT)	1		(PH)	50 (CYC)		
ACCESSORIES	ON/OFF SWITCH :				REQUIRED				
	EMERGENCY SHUT DOWN PUSH BOTTOM :				REQUIRED				
	FAN GUARD :				REQUIRED				
PHYSICAL DATA*	OVERALL HEIGHT :		*		(mm)	CLEARANCE	LEFT SIDE :		(*) (mm)
	OVERALL LENGTH :		*		(mm)		RIGHT SIDE :		(*) (mm)
	OVERALL DEPTH :		*		(mm)		UP SIDE :		(*) (mm)
	TOTAL OPERATING WEIGHT :		*		(kg)		BOTTOM SIDE :		(*) (mm)
* SHALL BE COMPLETED / FINALIZED BY VENDOR.									
REMARKS :									

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Old Doc No.	-	Doc No. :		LRP-TNA-HV-15-DSH-0001					
DOMESTIC HOT WATER GENERATOR									
SITE CONDITION	EXPOSURE :								
	ALTITUDE :		5,528		(ft)	1,685		(m)	
	OUTDOOR DESIGN DBT :		122		(°F)	50.0		(°C)	
LOCATION :		STORE							
TAG NO. :		FIR-DHWG-101							
CAPACITY	TANK VOLUME :		158.7		(Gal.)	6000		(Lit.)	
	RECOVERY HEATING CAPACITY :		94000		(BTU/Hr)	27.5		(KW)	
DOMESTIC WATER SIDE	WATER FLOW RATE :		112		(GPH)	0.11		(L/s)	
	ENTERING WATER TEMP. :		40		(° F)	4.4		(° C)	
	LEAVING WATER TEMP. :		140		(° F)	60		(° C)	
HEATING WATER SIDE	REQUIRED HEATING ENERGY :		94000		(BTU/Hr)	27.5		(KW)	
	WATER FLOW RATE :		9.4		(GPM)	0.6		(L/s)	
	ENTERING WATER TEMP. :		180		(° F)	82.2		(° C)	
	LEAVING WATER TEMP. :		160		(° F)	71.1		(° C)	
PIPE CONNECTION*	DOMESTIC WATER IN :		(*)		(IN)	(*)		(MM)	
	DOMESTIC WATER OUT :		(*)		(IN)	(*)		(MM)	
	HEATING WATER IN :		(*)		(IN)	(*)		(MM)	
	HEATING WATER OUT :		(*)		(IN)	(*)		(MM)	
	PRESSURE,TEMP. RELIEF VALVE :		According to ASME code						
	DRAIN OF TANK :		(*)		(IN)	(*)		(MM)	
PHYSICAL DATA*	TANK DIAMETER :		(*)		(IN)	(*)		(MM)	
	TANK HEIGHT :		(*)		(IN)	(*)		(MM)	
	TUBE BUNDLE WITHDRAWAL LENGTH :		(*)		(IN)	(*)		(MM)	
	OPERATING WEIGHT :		(*)		(Lb)	(*)		(Kg)	
	SHIPPING WEIGHT :		(*)		(Lb)	(*)		(Kg)	
	CLEARANCE	REAR SIDE :		(*)		(MM)			
		FRONT SIDE :		(*)		(MM)			
		UP SIDE :		(*)		(MM)			
		BOTTOM SIDE :		-		(MM)			

 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 نو اندیشان
	<b>Fire Station No.2 HVAC Equipment Data Sheets</b>							
	Pro. Cod	Cons.	Discipline	Unit	Type	Serial	Rev	
Contract No.: 6258	LRP	TNA	HV	19	DSH	0001	04	Page: 17 of 27
Old Doc No.	-	Doc No. :		LRP-TNA-HV-15-DSH-0001				
* COMPLETED BY VENDOR / HVACR ENGINEER (IF NECESSARY)								
REMARKS :								



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	Fire Station No.2 HVAC Equipment Data Sheets								
	Pro. Cod	Cons.	Discipline	Unit	Type	Serial	Rev		
Contract No.: 6258	LRP	TNA	HV	19	DSH	0001	04	Page: 18 of 27	
Old Doc No.	-	Doc No. :		LRP-TNA-HV-15-DSH-0001					
CLOSED EXPANSION TANK									
SITE CONDITION	EXPOSURE :								
	ALTITUDE :		5,528	(ft)	1,685	(m)			
	OUTDOOR DESIGN DBT :		122	(°F)	50.0	(°C)			
LOCATION :	STORE								
TAG NO. :	FIR-C.EXT-01								
TYPE :	<input type="checkbox"/> AIR / WATER INTERFACE <input checked="" type="checkbox"/> DIAPHRAGM								
SYSTEM TYPE :	<input checked="" type="checkbox"/> HEATING <input type="checkbox"/> COOLING								
GENERAL DATA	TANK VOLUME :		53	(Gal.)	200	(Lit.)			
	MAX. AVERAGE OPERATING TEMP. :		180	(°F)	82.2	(°C)			
	ATMOSPHERIC PRESSURE (ABSOLUTE) :		(*)	(Ft.W.G)	(*)	(Kpa)			
	INITIAL FILL OR MIN.PRESSURE @ TANK :		(*)	(Ft.W.G)	(*)	(Kpa)			
	MAX. OPERATING PRESSURE @ TANK :		(*)	(Ft.W.G)	(*)	(Kpa)			
CONNECTIONS*	SIGHT GLASS :		(*)	(IN)					
	TANK AIR RELEASE FITTING :		(*)	(IN)					
	DRAIN AND AIR CONTROL INLET :		(*)	(IN)					
PHYSICAL DATA*	MIN. VOLUME :		(*)	(M3)	CLEARANCE	LEFT SIDE :		(*)	(MM)
	OVERALL DIAMETER :		(*)	(MM)		RIGHT SIDE :		(*)	(MM)
	OVERALL LENGTH :		(*)	(MM)		UP SIDE :		(*)	(MM)
	TOTAL OPERATING WEIGHT :		(*)	(Kg)		BOTTOM SIDE :		-	(MM)
* COMPLETED BY VENDOR / HVACR ENGINEER (IF NECESSARY)									