ASSISTED DESIGN REQUEST

FOR NEW GENERATION INSTALLATIONS

Applicant	Mr./Mrs. :
Project reference :	Activity carried out on the premises:

The undersigned agrees that the technical solutions that will be proposed by SINTRA following this request derive from the experience and know-how of SINTRA and are subjected to intellectual property rights.
SINTRA reserves the INTELLECTUAL PROPERTY of the technical solutions that will be proposed.
The technical solutions that apply MIX-IND® technologies (*) are generally more efficient and often cheaper than most of the technical solutions normally used.
However, the components used to implement these solutions necessarily have UNITARY prices which are higher than the market prices, since they integrate the costs of research, patents, Assisted Design, etc.
In addition to the high risk of counterfeiting or abuse of SINTRA's intellectual property, any competitive tendering of these products, having a higher UNITARY price, automatically excludes SINTRA from a fair commercial competition.
The undersigned therefore accepts that the technical solutions proposed following this request MUST NOT BE USED IN FREE COMPETITION.

UNDER NO CIRCUMSTANCES WILL THE APPLICANT BE OBLIGED TO ADOPT THE TECHNICAL SOLUTIONS THAT WILL BE PROPOSED BY SINTRA

If the undersigned wishes to use a technical solution proposed by SINTRA, he will commit through this form to:

a) the exclusive use of materials proposed by SINTRA;

b) obtain all authorizations that may be necessary to ensure the exclusivity required by SINTRA.

In the event that the undersigned will not be able to guarantee these conditions, he formally undertakes not to disclose nor use, even if partially, the technical solutions proposed by SINTRA, which must be considered strictly confidential.

Approval signature(s) and stamp

Place : _____

Date : _____

_____

_____

_____

(*) information on www.mix-ind.it

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SiNTRA
SISTEMI INNOVATIVI DI TRATTAMENTO ARIA

GENERAL DATA

Applicant's information :

- ☐ Address _____
- ☐ Zip code – Town _____
- ☐ Office tel. _____ Mobile phone _____
- ☐ E-mail _____
- ☐ Project location

☐ Project designer
☐ Fitter
☐ Final end-user
☐ _____

Estimated period/date of the technical solution: _____

of the possible supply : _____

REQUIRED PERFORMANCE LEVEL

- ☐ **1 -** Max. available performances, justified price
- ☐ **2 -** High performances, moderate price
- ☐ **3 -** Best quality/price ratio
- ☐ **4 -** Competitive price, standard performances
- ☐ **5 -** Most competitive price, minimum performances

Please provide as much information as possible: plans and section views of the building, position of any existing ductwork or equipment, possible positions of the AHUs, significant encumbrances, positioning of storage shelves, possible duct pathways and maximum possible diameter, sensitive areas, photos, etc.

NOTE: (Description of the activity carried out on the premises with indication of any special filtration or comfort needs, presence of pollutants, unique psychrometric properties, acoustics, etc.

SiNTRA
SISTEMI INNOVATIVI DI TRATTAMENTO ARIA

ENVIRONMENTAL DIAGNOSTIC

Occupant: _____ **Site Reference:** _____

Building/Space: _____ _____ _____

Building dimensions :

☐	Length / Width	ft	_____/_____	_____/_____	_____/_____
☐	Total Square Footage	ft²	_____	_____	_____
☐	Average floor to ceiling height	ft	_____	_____	_____
☐	Total Space Volume	ft³	_____	_____	_____

Winter thermal load (Excluding Outdoor Air) :

☐	Heating load required	***MBH**	_____	_____	_____
☐	Infiltration load expected from building envelop/doors	***MBH**	_____	_____	_____
☐	Total exhaust air (process, ventilation, etc.)	***CFM**	_____	_____	_____
☐	Maximum Outdoor air required	***CFM**	_____	_____	_____

Summer thermal load (Excluding Outdoor Air) :

☐	SENSIBLE external inputs (walls, windows, etc.)	****MBH**	_____	_____	_____
☐	SENSIBLE internal inputs (people, lights, engines, etc.)	****MBH**	_____	_____	_____
☐	LATENT internal inputs (people, work process, other, etc.)	MBH	_____	_____	_____
☐	Total exhaust air (process, ventilation, etc.)	CFM	_____	_____	_____
☐	Maximum Outdoor air required	CFM	_____	_____	_____

Air Handling Equipment :

☐	Total Supply Air (anticipated)	CFM	_____	_____	_____
☐	Outdoor Air Required in the total space	CFM	_____	_____	_____
☐	Max. static pressure available at Sintra system	in-wg	_____	_____	_____

WINTER operation :

☐	Indoor temperature setpoint	°F	_____
☐	Max. supply air temperature available	°F	_____
☐	Min. supply air temperature	°F	_____
☐	Indoor relative humidity	%RH	_____
☐	Minimum temperature outside on-site	°F	_____

SUMMER operation :

☐	Indoor temperature setpoint	°F	_____
☐	Min. supply air temperature available	°F	_____
☐	Maximum temperature outside on-site	°F	_____
☐	Outdoor relative humidity	%RH	_____
☐	Indoor relative humidity	%RH	_____

Facility occupancy :

☐	Hours per day	hours	____ / 24
☐	Days per week	days	____ / 7

Air treatment :

☐	Air Handling Equipment :		
☐	Hot water coil (input/output temperature)	°F	____ / ____
☐	Chilled water coil (input/output temperature)	°F	____ / ____
☐	Direct expansion coil		
☐	Direct expansion roof-top		
☐	Indirect Gas Fired Heater _____		
☐	_____		

(*) important information to provide
(**) please avoid including outdoor air load in these totals

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LIST OF THE PATENTS

TRADENAME	DEPARTURE OF RIGHTS	DEPOSIT		GRANT	
		NUMBER	DATE	NUMBER	DATE
VARITRAP®	02-2009	MI2009A000275	26-02-2009	1393105	11-04-2012
		EP10154832.9	26-02-2010	EP2224183	06-05-2015
VARIPLENUM®	02-2009	MI2009A000604	14-04-2009	1397501	16-01-2013
SPIROPACK	07-2009	MI2009A001174	02-07-2009	1394571	05-07-2012
		MI2011A001380	02-07-2009	1401168	02-07-2009
		MI2011A001382	02-07-2009	1401169	02-07-2009
		EP10743224.7	02-07-2010	EP2449316	14-05-2014
HYGRO-COOLING®	08-2010	MI2010A001539	12-08-2010	1401522	26-07-2013
VARIPULSE®	10-2010	MI2011U000319	11-10-2011	276261	02-08-2013
		EP12188085.0	11-10-2012	EP2597392	12-12-2018
TWIN-VARIBOOST®	08-2011	MI2011A001538	12-08-2011	1408111	06-06-2014
		EP12179782.3	09-08-2012	EP2557368	27-09-2017
		EP17193279.1	09-08-2012	EP3293462	06-01-2021
TWIN-LOCK	07-2014	MI2014A001352	24-07-2014	1425497	03-11-2016
		EP15178143.2	23-07-2015	EP2977663	27-01-2016
VARIWIND	09-2014	MI2014A001535	03-09-2014	1425751	09-11-2016
		EP15183590.7	02-09-2015	EP2995876	12-04-2017
	05-2021	1020			
VARISMOKE	02-2015	MI2015A000181	09-02-2015	1428404	05-05-2017
TWIN-FLOW	09-2015	202015000051120	14-09-2015	102015000051120	27-10-2017
BOX-IN-BOX	12-2016	202016000127166	15-12-2016	202016000127166	13-03-2019
		FR1762278	15-12-2017		(pending)
	01-2019	US16/246,214	11-01-2019		(pending)
RADYAL	12-2016	102016000127985	19-12-2016	102016000127985	06-05-2019
		EP17208679.5	19-12-2017	EP3343119	28-04-2021
OLD PATENTS	07-1981	IT23283/81A	31-07-1981		
	07-1981	FR2510728A1	30-07-1982	FR2510728B1	29-07-1988
	07-1981	BE893893A	20-07-1982		
	07-1981	CH651914	30-07-1982		
	07-1981	DE3228401A1	29-07-1982		
	07-1981	DK341782A	30-07-1982		
	07-1981	ES8307356A1	30-07-1982		
	07-1981	GB2105458A	23-07-1982	GB2105458B	02-10-1985
	07-1981	JPS5852926A	30-07-1982		
	07-1981	NL8203061A	30-07-1982		
	07-1981	SE8204508L	29-07-1982		
	07-1981	CA1178841	30-07-1982		
	02-1997	FR19910009593	29-07-1991	FR2679983B1	17-12-1993
	12-1983	IT24442/83A	30-12-1983	-	-
	12-1983	IT24354/83A	23-12-1983		
	12-1983	IT24441/83A	30-12-1983		
	05-1996	101996900521750	30-05-1996	IT1293182	16-02-1999
	07-1997	EP97830388.1	24-07-1997	EP899519	17-05-2000

GENERAL INFORMATION:

- The above mentioned patents are owned by the inventor Marco Zambolin and granted in exclusive licence to SINTRA s.r.l.
- Invention patents have a duration of 20 years, whereas utility models have a duration of 10 years
- In the event of counterfeiting, international laws would necessarily involve the manufacturer, the fitter, the project designer and the final customer
- Further information on the patents is available on our website: **www.mix-ind.it** and on the website **www.inpi.fr**

SINTRA
SISTEMI INNOVATIVI DI TRATTAMENTO ARIA

ENVIRONMENTAL DIAGNOSTIC

◉ Italiano ○ English

Oggetto: _____ **RIF. Impianto:** _____

Locale: _____ _____ _____

Dimensioni del fabbricato:

☐ Dimensioni approssimate (lunghezza/larghezza)	m	_____ /_____	_____ /_____	_____ /_____
☐ Superficie al suolo	m^2	_____	_____	_____
☐ Altezza media	m	_____	_____	_____
☐ Volume	m^3	_____	_____	_____

Carico termico invernale

(SENZA L'ARIA ESTERNA DELLA UTA):

☐ Dispersioni statiche dalla struttura del fabbricato	***KW**	_____	_____	_____
☐ Infiltrazioni naturali di aria esterna da portoni, finestre, ecc.	***KW**	_____	_____	_____
☐ Estrazioni d'aria forzate (espulsioni meccaniche)	***m^3/h**	_____	_____	_____
☐ Quantità massima di aria esterna immessa dalla UTA	***m^3/h**	_____	_____	_____

Carico termico estivo

(SENZA L'ARIA ESTERNA DELLA UTA):

☐ Rientrate termiche massime dalla struttura e dalle vetrate	****KW**	_____	_____	_____
☐ Calore endogeno SENSIBILE (persone, luci, motori, ecc.)	****KW**	_____	_____	_____
☐ Calore endogeno LATENTE (persone, altro, ecc.)	KW	_____	_____	_____
☐ Estrazioni meccaniche forzate (espulsioni, camini, ecc.)	m^3/h	_____	_____	_____
☐ Quantità di aria esterna immessa dalla UTA	m^3/h	_____	_____	_____

Unità di trattamento dell'aria (UTA):

☐ portata totale dell'aria di mandata	m^3/h	_____	_____	_____
☐ portata massima di aria esterna	m^3/h	_____	_____	_____
☐ pressione statica disponibile in ingresso ai PULSORI®	Pa	_____	_____	_____

Condizioni termoigrometriche INVERNALI:

☐ temperatura ambiente	°C	_____
☐ temperatura massima di immissione aria	°C	_____
☐ temperatura minima di immissione aria	°C	_____
☐ umidità relativa ambiente	%HR	_____
☐ temperatura esterna minima di progetto	°C	_____

Condizioni termoigrometriche ESTIVE:

☐ temperatura ambiente	°C	_____
☐ temperatura minima di immissione aria	°C	_____
☐ temperatura esterna massima di progetto	°C	_____
☐ umidità relativa esterna di progetto	%HR	_____
☐ umidità relativa ambiente	%HR	_____

Occupazione dei locali:

☐ Ore giornaliere di occupazione dei locali	ore	____ / 24
☐ Giorni settimanali di occupazione dei locali	giorni	____ / 7

Tipologia di unità di trattamento dell'aria (UTA)

☐ Centrale di Trattamento Aria (CTA), alimentata con:		
☐ batteria ad acqua calda (es. 60/50 °C)	°C	_____ / _____
☐ batteria ad acqua refrigerata (es. 7/12 °C)	°C	_____ / _____
☐ batteria ad espansione diretta		
☐ Roof-top ad espansione diretta		
☐ Generatore d'aria calda con bruciatore a _____		
☐ _____		

(*) Informazioni importanti da fornire.
(**) Evitare di indicare la potenza totale, cumulativa dei carichi latenti ambiente e dei carichi dell'aria esterna.

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