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WIRED DATA COLLECTION EQUIPMENT PACKAGE
Recommended Components

FOR HEAT PENETRATION TESTING

	SKU	Quantity	Cans	Cans (Low profile)	Cans (Steritort)	Glass Jars	Plastic Cups/Trays	Pouches	Tetra Recart
SOFTWARE									
CALSoft Software	CSF	1	●	●	●	●	●	●	●
DATALOGGER									
CALPlex Datalogger	CPLX	1	●	●	●	●	●	●	●
WIRES									
HP Lead Wires	HP-WIRE	12	●	●		●	●	●	●
Free Lead Wires	TD-WIRE	2	●	●	●	●	●	●	●
Rotary Contactors/ Wires	S28	12			●				
THERMOCOUPLES									
Needle Thermocouples	CNS	12 (per size)	●	●	●	●	●		●
Pouch Thermocouples	PCH-TC	12						●	
RECEPTACLES									
Thermocouple Receptacles - Stainless	C5 / C9	12	●		●	●			●
Thermocouple Receptacles - Delrin	C5D / C9D	12					●		
Pouch Receptacles - Brass	C5.2	12						●	
Low Profile Receptacle - Brass	SARDINE-REC	12		●					
Low Profile Adapter Wire	LOW-PRO-WIRE	12		●					
Pouch Spacer Post - Delrin	PCH-POST	12						●	
GASKETS									
Receptacle Gasket	C16	1 bag 100	●		●	●	●		●
Thermocouple Gasket	C17	1 bag 100	●	●	●	●	●		●
Pouch Receptacle Gasket	C26	1 bag 100						●	
Pouch Receptacle Packing Gasket	C27	1 bag 100						●	
Low Profile Receptacle O-Ring	NE-GASK	1 bag 100		●					
PUNCH									
Can Punch- Lever Type	C12	1	●			●	●		●
Can Punch- Manual Type & Awl	C11-A	1			●				
Pouch Punch	PCH-PUNCH	1						●	
Forstner Drill Bit - 7/16”	FORSTNER-7/16	1		●					
TOOLS									
Thermocouple Spanner Wrench	C14S		●	●	●	●	●		●
End Wrench	C13		●	●	●	●	●		●
REORT PACKING GLAND									
Retort Packing Gland	C24FL	1	●	●	●	●	●	●	●
Extra Gasket Material 12” x 12”	GSK-MAT	1 – 12”x12”	●	●	●	●	●	●	●
18-Circuit Hub for Steritort	ESR-HUB	1			●				

Order - https://tcal.com/wired-data-collection-system Questions – support@tcal.com

More detail on following pages

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WIRED DATA COLLECTION EQUIPMENT PACKAGE

Recommended Components for Conducting

Heat Penetration Testing

with

METAL CANS

	SKU	QNTY	COMMENTS from TechniCAL
SOFTWARE			
CALSoft Software	CSF	1	Two versions available: - Collect – Conduct HP testing only - Full – Collect & evaluate/Ball Formula
DATALOGGER			
CALPlex Datalogger	CPLX	1	Two Versions. Depends on retort type: - Rotary CALPlex for rotary retorts - Standard CALPlex for static retorts
WIRES			
HP Lead Wires	HP-WIRE	12	- Choose wire type, length, & connectors - HP Wires connect to test cans - Free Leads measure retort temperature
Free Lead Wires	TD-WIRE	2	
THERMOCOUPLES			
Needle Thermocouples	CNS	12 (per size)	Sized for each container to be tested - 12 thermocouples is 1 “set” - Consider 2 sets for HP testing - Thermocouple comes with a gasket
RECEPTACLES			
Thermocouple Receptacles - SS	C5 / C9	12	Two Types. Depends on retort: - C9 Locking - for agitating retorts - C5 Non-Locking - for static retorts - Receptacle comes with a gasket
GASKETS			
Receptacle Gaskets	C16	1 bag 100	- Gaskets will wear out over time - Extra bags are for future use
Thermocouple Gaskets	C17	1 bag 100	
PUNCH			
Can Punch- Lever Type	C12	1	- Punches a 9/16” hole for Receptacle
TOOLS			
Thermocouple Spanner Wrench	C14S	1	- For installing needle thermocouple
End Wrench ¾”	C13	1	- For installing receptacle
REORT PACKING GLAND			
Retort Packing Gland- 1”	C24FL	1	- Allows for wires to install into retort - 1” diameter pipe fitting - May require reducers/bushings
Extra Gasket Material 12” x 12”	GSK-MAT	1 – 12”x12”	- Gaskets will wear over time - Extra gasket material for future use

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WIRED DATA COLLECTION EQUIPMENT PACKAGE

Recommended Components for Conducting

Heat Penetration Testing

with

METAL CANS

Low Profile (Sardine Cans)

	SKU	QNTY	COMMENTS from TechniCAL
SOFTWARE			
CALSoft Software	CSF	1	Two versions available: - Collect – Conduct HP testing only - Full – Collect & evaluate/Ball Formula
DATALOGGER			
CALPlex Datalogger	CPLX	1	Two Versions. Depends on retort type: - Rotary CALPlex for rotary retorts - Standard CALPlex for static retorts
WIRES			
HP Lead Wires	HP-WIRE	12	- Choose wire type, length, & connectors - HP Wires connect to test cans - Free Leads measure retort temperature
Free Lead Wires	TD-WIRE	2	
THERMOCOUPLES			
Needle Thermocouples	CNS	12 (per size)	Sized for each container to be tested - 12 thermocouples is 1 “set” - Consider 2 sets for HP testing - Thermocouple comes with a gasket
RECEPTACLES			
Low Profile Receptacle	SARDINE-REC	12	- Designed for low-profile sardine can - Receptacle comes with an O-Ring
Adapter Wire for Low Profile	LOW-PRO-WIRE	12	- Special adapter wire for receptacle - Connects to standard HP wire
GASKETS			
Low Profile Receptacle O-Ring	NE-GASK	1 bag 100	- Gaskets will wear out over time - Extra bags are for future use
Thermocouple Gaskets	C17	1 bag 100	
PUNCH			
Forstner Drill Bit 7/16” size	FORSTNER-7/16	1	- Drill 7/16” hole for Low Profile Receptacle
TOOLS			
Thermocouple Spanner Wrench	C14S	1	- For installing needle thermocouple
REORT PACKING GLAND			
Retort Packing Gland- 1”	C24FL	1	- Allows for wires to install into retort - 1” diameter pipe fitting - May require reducers/bushings
Extra Gasket Material 12” x 12”	GSK-MAT	1 – 12”x12”	- Gaskets will wear over time - Extra gasket material for future use

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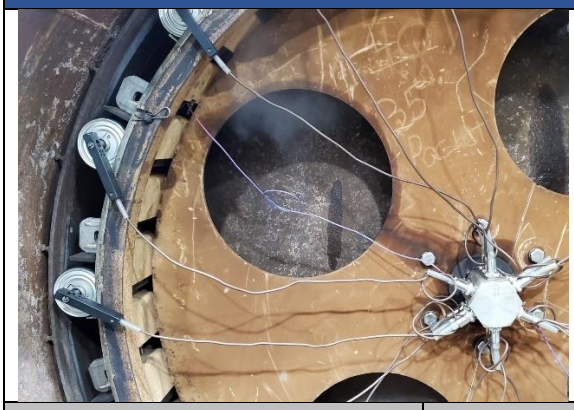
WIRED DATA COLLECTION EQUIPMENT PACKAGE



Recommended Components for Conducting

Heat Penetration Testing

with

METAL CANS

(in a pilot Steritort)

	SKU	QNTY	COMMENTS from TechniCAL
SOFTWARE			
CALSoft Software	CSF	1	Two versions available: - Collect – Conduct HP testing only - Full – Collect & evaluate/Ball Formula
DATALOGGER			
CALPlex Datalogger	CPLX	1	- Rotary version for use with Steritort
WIRES			
Rotary Contactors/Wires	S28	12	- Choose wire type, length, & connectors - S28's connect to test cans and hub - Free Leads measure retort temperature
Free Lead Wires	TD-WIRE	2	
THERMOCOUPLES			
Needle Thermocouples	CNS	12 (per size)	Sized for each container to be tested - 12 thermocouples is 1 "set" - Consider 2 sets for HP testing - Thermocouple comes with a gasket
RECEPTACLES			
Thermocouple Receptacles - SS	C9	12	- Locking receptacle for agitating retort - Receptacle comes with a gasket
GASKETS			
Receptacle Gaskets	C16	1 bag 100	- Gaskets will wear out over time - Extra bags are for future use
Thermocouple Gaskets	C17	1 bag 100	
PUNCH			
Can Punch- combination punch/countersink & Awl	C11-A	1	- Punches a 9/16" hole for Receptacle - Use for punching hole in bottom of can
TOOLS			
Thermocouple Spanner Wrench	C14S	1	- For installing needle thermocouple
End Wrench ¾"	C13	1	- For installing receptacle
REORT PACKING GLAND			
Retort Packing Gland- 1"	C24FL	1	- Allows for wires to install into retort - 1" diameter pipe fitting - May require reducers/bushings
Extra Gasket Material 12" x 12"	GSK-MAT	1 – 12"x12"	- Gaskets will wear over time - Extra gasket material for future use
18-Circuit Hub for Steritort	ESR-HUB	1	- Installs into back of Steritort - 18 surface connectors mounted on hub - 5' wire attached to each connector - Hub comes with 18 S34 protective caps

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WIRED DATA COLLECTION EQUIPMENT PACKAGE

Recommended Components for Conducting

Heat Penetration Testing

with

Glass Jars/Bottles

	SKU	QNTY	COMMENTS from TechniCAL
SOFTWARE			
CALSoft Software	CSF	1	Two versions available: - Collect – Conduct HP testing only - Full – Collect & evaluate/Ball Formula
DATALOGGER			
CALPlex Datalogger	CPLX	1	Two Versions. Depends on retort type: - Rotary CALPlex for rotary retorts - Standard CALPlex for static retorts
WIRES			
HP Lead Wires	HP-WIRE	12	- Choose wire type, length, & connectors - HP Wires connect to test cans - Free Leads measure retort temperature
Free Lead Wires	TD-WIRE	2	
THERMOCOUPLES			
Needle Thermocouples	CNS	12 (per size)	Sized for each container to be tested - 12 thermocouples is 1 “set” - Consider 2 sets for HP testing - Thermocouple comes with a gasket
RECEPTACLES			
Thermocouple Receptacles - SS	C5 / C9	12	Two Types. Depends on retort: - C9 Locking - for agitating retorts - C5 Non-Locking - for static retorts - Receptacle comes with a gasket
GASKETS			
Receptacle Gaskets	C16	1 bag 100	- Gaskets will wear out over time - Extra bags are for future use
Thermocouple Gaskets	C17	1 bag 100	
PUNCH			
Can Punch- Lever Type	C12	1	- Punches a 9/16” hole for Receptacle
TOOLS			
Thermocouple Spanner Wrench	C14S	1	- For installing needle thermocouple
End Wrench ¾”	C13	1	- For installing receptacle
REORT PACKING GLAND			
Retort Packing Gland- 1”	C24FL	1	- Allows for wires to install into retort - 1” diameter pipe fitting - May require reducers/bushings
Extra Gasket Material 12” x 12”	GSK-MAT	1 – 12”x12”	- Gaskets will wear over time - Extra gasket material for future use

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WIRED DATA COLLECTION EQUIPMENT PACKAGE

Recommended Components for Conducting

Heat Penetration Testing

with

Plastic Bowls/Trays

	SKU	QNTY	COMMENTS from TechniCAL
SOFTWARE			
CALSoft Software	CSF	1	Two versions available: - Collect – Conduct HP testing only - Full – Collect & evaluate/Ball Formula
DATALOGGER			
CALPlex Datalogger	CPLX	1	Two Versions. Depends on retort type: - Rotary CALPlex for rotary retorts - Standard CALPlex for static retorts
WIRES			
HP Lead Wires	HP-WIRE	12	- Choose wire type, length, & connectors - HP Wires connect to test cans - Free Leads measure retort temperature
Free Lead Wires	TD-WIRE	2	
THERMOCOUPLES			
Needle Thermocouples	CNS	12 (per size)	Sized for each container to be tested - 12 thermocouples is 1 “set” - Consider 2 sets for HP testing - Thermocouple comes with a gasket
RECEPTACLES			
Thermocouple Receptacles - Delrin Plastic	C5D / C9D	12	Two Types. Depends on retort: - C9D Locking - for agitating retorts - C5D Non-Locking - for static retorts - Receptacle comes with a gasket
GASKETS			
Receptacle Gaskets	C16	1 bag 100	- Gaskets will wear out over time - Extra bags are for future use
Thermocouple Gaskets	C17	1 bag 100	
PUNCH			
Can Punch- Lever Type	C12	1	- Punches a 9/16” hole for Receptacle
TOOLS			
Thermocouple Spanner Wrench	C14S	1	- For installing needle thermocouple
End Wrench ¾”	C13	1	- For installing receptacle
REORT PACKING GLAND			
Retort Packing Gland- 1”	C24FL	1	- Allows for wires to install into retort - 1” diameter pipe fitting - May require reducers/bushings
Extra Gasket Material 12” x 12”	GSK-MAT	1 – 12”x12”	- Gaskets will wear over time - Extra gasket material for future use

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WIRED DATA COLLECTION EQUIPMENT PACKAGE

Recommended Components for Conducting

Heat Penetration Testing

with

Flexible Pouches

	SKU	QNTY	COMMENTS from TechniCAL
SOFTWARE			
CALSoft Software	CSF	1	Two versions available: - Collect – Conduct HP testing only - Full – Collect & evaluate/Ball Formula
DATALOGGER			
CALPlex Datalogger	CPLX	1	Two Versions. Depends on retort type: - Rotary CALPlex for rotary retorts - Standard CALPlex for static retorts
WIRES			
HP Lead Wires	HP-WIRE	12	- Choose wire type, length, & connectors - HP Wires connect to test cans - Free Leads measure retort temperature
Free Lead Wires	TD-WIRE	2	
THERMOCOUPLES			
Pouch Thermocouples	PCH-TC	12	One size fits all pouches: - 36” flexible wire/Thermocouples - 12 thermocouples is 1 “set” - Consider 2 sets for HP testing
RECEPTACLES			
Pouch Thermocouple Receptacles - Brass	C5.2	12	Receptacle to accept pouch thermocouple: - Receptacle & packing nut - Comes with receptacle & packing gaskets
Pouch Spacer Post - Delrin Plastic	PCH-POST	12	- Thermocouple fits through spacer - Helps position tip in center of pouch
GASKETS			
Pouch Receptacle Gaskets	C26	1 bag 100	- Gaskets will wear out over time - Extra bags are for future use
Pouch Packing Gaskets	C27	1 bag 100	
PUNCH			
Pouch Punch 3/8”	PCH-PUNCH	1	- Punches a 3/8” hole for pouch receptacle
TOOLS			
-- no special tools required			
REORT PACKING GLAND			
Retort Packing Gland- 1”	C24FL	1	- Allows for wires to install into retort - 1” diameter pipe fitting - May require reducers/bushings
Extra Gasket Material 12” x 12”	GSK-MAT	1 – 12”x12”	- Gaskets will wear over time - Extra gasket material for future use

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WIRED DATA COLLECTION EQUIPMENT PACKAGE

Recommended Components for Conducting

Heat Penetration Testing

with

Tetra ReCart

(Retortable Cartons)

	SKU	QNTY	COMMENTS from TechniCAL
SOFTWARE			
CALSoft Software	CSF	1	Two versions available: - Collect – Conduct HP testing only - Full – Collect & evaluate/Ball Formula
DATALOGGER			
CALPlex Datalogger	CPLX	1	Two Versions. Depends on retort type: - Rotary CALPlex for rotary retorts - Standard CALPlex for static retorts
WIRES			
HP Lead Wires	HP-WIRE	12	- Choose wire type, length, & connectors - HP Wires connect to test cans - Free Leads measure retort temperature
Free Lead Wires	TD-WIRE	2	
THERMOCOUPLES			
Needle Thermocouples	CNS	12 (per size)	Sized for each container to be tested - 12 thermocouples is 1 “set” - Consider 2 sets for HP testing - Thermocouple comes with a gasket
RECEPTACLES			
Thermocouple Receptacles - SS	C5 / C9	12	Two Types. Depends on retort: - C9 Locking - for agitating retorts - C5 Non-Locking - for static retorts - Receptacle comes with a gasket
GASKETS			
Receptacle Gaskets	C16	1 bag 100	- Gaskets will wear out over time - Extra bags are for future use
Thermocouple Gaskets	C17	1 bag 100	
PUNCH			
Can Punch- Lever Type	C12	1	- Punches a 9/16” hole for Receptacle
TOOLS			
Thermocouple Spanner Wrench	C14S	1	- For installing needle thermocouple
End Wrench ¾”	C13	1	- For installing receptacle
REORT PACKING GLAND			
Retort Packing Gland- 1”	C24FL	1	- Allows for wires to install into retort - 1” diameter pipe fitting - May require reducers/bushings
Extra Gasket Material 12” x 12”	GSK-MAT	1 – 12”x12”	- Gaskets will wear over time - Extra gasket material for future use